



**SOLANO**  
**COMMUNITY COLLEGE**

*www.solano.edu*

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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*  
*4000 Suisun Valley Road*  
*Fairfield, California 94534-3197*  
*(707) 864-7000*

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**2006-2007 Catalog**

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**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.

*please recycle responsibly*



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## 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.

## MEMBERSHIPS

- American Association of Community Colleges (AACC)
  - American Library Association
  - Chambers of Commerce of Benicia, Fairfield, Vacaville, and Vallejo
  - Community College League of California (CCLC)
  - Directors of Educational Technology/California Higher Education (DET/CHE)
  - EDUCAUSE
  - Learning Resources Association of California Community Colleges (LRACCC)
  - National Association of Student Financial Aid Administrators (NASFAA)
  - 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
  - Solano University and Community College Educational Support Services (SUCCESS)
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# Academic Calendars

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## *SUMMER 2006*

<b>SESSION</b>	<b>INSTRUCTION BEGINS</b>	<b>INSTRUCTION ENDS</b>
Intersession	May 25	June 16
6 weeks	June 19	July 27
8 weeks	June 19	August 10

Final examinations are on the last meeting day of class.

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## *FALL 2006*

August 21, 2006 (Monday)  
September 4, 2006  
November 10, 2006  
November 23, 24, 25, 2006  
December 14-20, 2006  
December 11-15, 2006

**INSTRUCTION BEGINS**  
Labor Day, no classes  
Veterans Day, no classes  
Thanksgiving Holiday, no classes  
Day final examinations  
Evening final examinations



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## *SPRING 2007*

**January 22, 2007 (Monday)**  
February 16, 2007  
February 19, 2007  
April 9-14, 2007  
May 18-24, 2007  
May 15-21, 2007  
May 24, 2007  
May 28, 2007

**INSTRUCTION BEGINS**  
Lincoln's Birthday, no classes  
President's Day, no classes  
Spring vacation  
Day final examinations  
Evening final examinations  
Commencement  
Memorial Day, no classes

# General Information

## Welcome



Welcome to Solano Community College! Our tradition of excellence will provide a stimulating learning environment to meet or exceed all your expectations. You will find faculty dedicated to your learning and staff willing to assist you in your success. In addition, all our new, state-of-the-art facilities will offer you the best possible learning environment. Solano Community College stands ready to serve your educational needs with current curriculum. Whether you are preparing for transfer to a college or university, seeking an occupational degree or certificate, engaging in professional development or personal improvement, or training as part of local business and industry, we are pleased that you have chosen Solano Community College.

Join us in sharing the spirit and excitement of learning, teaching, scholarship and community at Solano Community College. We are proud of our current and former students, the College and of our 60 years of service to the community. Please accept my personal best wishes for your success while attending Solano Community College as well as in future years.

Paulette J. Perfumo, 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 108 campuses in 72 districts across the state. The College's service area encompasses the communities of Benicia, Dixon, Fairfield, Suisun, Vacaville, Vallejo and Winters, as well as Travis Air Force Base and a portion of 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 on and off the 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.



*Innovative Education for the 21st Century*

# Mission and Goals

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## VISION STATEMENT

Solano Community College will be a premier educational institution for academic development, workforce preparation and lifelong learning. To achieve our vision, Solano Community College is committed to excellence, innovative teaching and learning, and student success through the unified efforts of the campus community.

## MISSION STATEMENT

The mission of Solano Community College is to provide the highest quality academic, occupational, cultural, developmental, and continuing education programs that are dedicated to the achievement of student learning outcomes and responsive to the needs of our community. In fulfilling our mission, we are committed to a diverse educational and cultural campus environment that prepares our students for productive participation in the 21st century.

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## CORE VALUES

Solano Community College is committed to excellence. The College has adopted the following Core Values to guide our policies, procedures, and daily practices:

**Focus on students.** We exist to meet the educational needs of our students. Everything we do contributes to and promotes the quality of their access, learning and success.

**Accountability.** We are individually and collectively responsible for achieving the highest level of performance in fulfilling our mission. We continually evaluate ourselves in an effort to improve our effectiveness and efficiency in meeting the educational needs of our community.

**Quality.** We share a commitment to excellence and continuous improvement. We emphasize the best in teaching and learning, student achievement, the use of technology, and the delivery of support services.

**Innovation.** The College encourages and supports creativity, collaboration, and risk-taking. We foster and promote innovation in the design, development, support, delivery, and management of all programs and services.

## 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.

**Diversity.** We are a multicultural and diverse organization, an enriching blend of people and ideas. This college is a place for all people, an environment devoted to fostering the diversity of our staff, faculty and student body. We recognize the worth of each individual and his or her ideas, and treat each other and those we serve fairly, with compassion and with respect.

**Respect.** We demonstrate a commitment to the value of each individual through trust, cooperation and teamwork. We seek active participation, open communication and exchange of ideas, and collaborative decision-making.

**Responsiveness to the Community.** We recognize that our students and our community deserve our best efforts and are committed to understanding and serving their educational needs. We seek to initiate and cultivate working partnerships with business, industry, government and other institutions.

**Pro-active Leadership.** We continually set aggressive goals and commit ourselves to their achievement. We recognize the importance of learning in people's lives and understand our responsibility to provide educational leadership that responds to the current and future needs of our communities.

# 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](http://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 AFDC welfare recipients to attain job training skills. Effective with the 1998-99 academic year TANF/CalWORKs will be consolidated.

**CAN** - The California Articulation Number (CAN) System provides a cross-reference course identification number for transferable courses. Identically numbered CAN courses are acceptable "in lieu" of each other. The CAN web site is: [www.cansystem.org](http://www.cansystem.org).

**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 Services Course** - Fee-based, noncredit courses offered through the College Community Service Office.

**Concurrent Enrollment** - Taking one course at a CSU or UC campus while also enrolled as a Solano College student.

**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 6.

**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.

**Credit/No Credit** - 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 below.

**CSU** - California State University System. The CSU web site is: [www.calstate.edu](http://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.

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**Drop Dates** - 1) Last day to drop a class with no course or grade recorded (at the 30% point of the class); 2) Last date to drop a class with "W" grade recorded (at the 62.5% point of the class).

**DSP** - Disability Services Program offers supportive services for students with physical, communication, learning disabilities, psychological disabilities or other medical problems.

**Elective** - Courses which are not required for the major or general education but are acceptable for credit. An elective course may be in the student's major area of study or any department of a college.

**EOPS** - Extended Opportunity Programs and Services is a program that provides financially and educationally disadvantaged students with support services that include counseling, financial assistance, tutoring referrals, and assistance towards the purchase of their required textbooks.

**EUREKA** - A computerized career information system available to students in the College Career Center.

**Fast-Track** - Courses or programs offered in an accelerated mode. Fast-track courses can be completed in less than a semester. Fast-track programs can be completed in less time than normally offered programs.

**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 par-

ticular discipline. These courses are designated with the course number "49" or "99" 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 17H. 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 fast-track program of study specifically designed to prepare students for employment in the identified field.

**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).

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**Minor** - The subject field of study which a student chooses for secondary emphasis.

**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.

**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.

**R.S.V.P.** - Registration Services Via Phone.

**SCC Minimum English Standard** - Eligibility for enrollment in English 370.

**SCC Minimum Mathematics Standard** - Eligibility for enrollment in Math 102 .

**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 through message boards and other electronic means. There is no set time when students must be at their computers. The weekly structure keeps the class on track and focused on the same educational goals while allowing an escape from the scheduling 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 training 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 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.

**Units Attempted (UA)** - Total number of units in the courses for which a student has enrolled and received a grade of A, B, C, D or F.

**Units Completed (UC)** - Total number of units in the courses for which a student has received a grade of A, B, C, D, F, or CREDIT.

**U.C.** - The University of California System. The UC web site is: [www.ucop.edu](http://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.

# General Campus Information

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## ACADEMIC FREEDOM - FACULTY

The Solano County 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.

## 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 and cash is issued in increments of \$5.00. Bank fees may apply.

## BOOKSTORE

The Bookstore is owned and operated by the Solano Community College District and 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 general reading and reference books, study aids, greeting cards, gifts, school and art supplies, and Solano College imprinted clothing. Cur-

rently registered students and staff may purchase selected computer software at educational prices. The **Bookstore is open to the public all year, except campus holidays**, and accepts Master Card, Visa, American Express, Discover, and personal checks.

The Bookstore buys many textbooks back during finals and between semesters. Some books not needed or used on this campus may be bought at a nationally established price. For further details about book buyback, refunds, and other policies, please contact the bookstore or check our web site.

Call the Bookstore direct, (707) 864-7111, for more information and hours of operation. Textbook information, hours of operation, products, services, online ordering, and policies are available on the Bookstore's web site ([www.solano.edu/bookstore](http://www.solano.edu/bookstore)).

## CAFETERIA

The cafeteria at Solano 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. To complete this well-rounded fare, there is an Espresso Cart. The cafeteria hours of operation are Monday through Thursday, 7:30 a.m. to 9:00 p.m., and Fridays from 7:30 a.m. to 3:00 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, on-line 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 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,*

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*Executing Section 504 of the Rehabilitation Act of 1973, California Fair Employment Practices of 1959, Americans With Disabilities Act of 1990, and the Discrimination and Employment Act of 1972.*

## COMMUNITY EDUCATION AND SERVICES

Our Community Education Services Office offers a variety of non-credit, fee-based classes and workshops addressing a broad range of subjects and areas of interest. *Vistas*, our community education schedule, is mailed to all residents of Solano County. Look for *Vistas* in July 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 website at: [www.solano.edu/community\\_services](http://www.solano.edu/community_services)

Community Services also arranges for use of campus facilities. For campus facility rentals and fees, call (707) 864-7000, ext. 0.

## CONTRACT EDUCATION AND TRAINING

Solano Community College partners with local business, industry, and agencies to develop solutions to your workforce/workplace needs. In partnership with you, we will assess your training concerns and implement optimum training opportunities for your workforce. The Solano Community College Office of Contract Education and Training and Community Services 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 methods
- 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 assessment needs, call or email Deborah Mann today at (707) 854-7195, or [deborah.mann@solano.edu](mailto: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 Office of 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 9:00 a.m. to 2:00 p.m. and 5:00 p.m. to 9:00 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" will soon be available on the college's web site. Updated statistics list is available online at <http://ope.ed.gov/security>.

## 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.

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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 1407  
Counseling Department - Building 100  
Enabling Services - Room 1105  
Re-Entry Program - Room 1403B

## 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 or the Student Development Office, both located in Building 1400.

## PARKING

**Parking Permits:** Semester parking permits can be purchased at the office of Admissions and Records, Library/Student Services Building (Bldg. 100): \$20 for vehicles. Summer session fees are \$6 for autos. 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. Parking permits are required each semester and during summer sessions. Faculty/staff parking is enforced 7 days a week, 24 hours a day. All permits (semester and daily) must be clearly displayed with numbers visible to be valid.

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 two weeks of the fall/spring semester and during the first week of summer session, parking is 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. All other regulations and vehicle code violations are enforced 24 hours a day, 7 days a week.

**Suisun Valley Road 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 handicapped persons. Student parking is provided in Lots 1, 2, 3, 4, 5 and 6. California Vehicle Code and District parking regulations are enforced by the Solano Community College Police Department.

**Vacaville Center:** A parking permit is required to park at the Vacaville Center. Semester parking fees are \$20. Summer session fees are \$6 for autos. Daily permits may be purchased at the Vacaville site. The permit dispensers take 4 quarters only. Daily permits are not interchangeable between the main campus and the Vacaville site.

**JFK Library/Vallejo:** Parking is free at the JFK Library/Vallejo site, however, there is a three-hour limit.

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**Daily Parking Permits:** If students prefer not to purchase a semester permit, they must purchase daily parking permits from the red dispensers located in each student lot at a cost of \$1 per day (4 quarters only). New 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 covered, you must purchase a permit in an adjacent lot. Daily parking permits are valid in lots 1-6 and are not interchangeable between the main campus and the Vacaville site.

**Handicap Parking:** You must have a handicap placard or plates AND a current parking permit to park in handicapped parking. Your placard and permit must be clearly displayed.

**Rideshare Permits:** Rideshare permits are issued by the Student Development Office in room 1409 (across from the Bookstore). Vehicles displaying valid rideshare permits may park only in the spaces reserved for rideshare participants and not in any other lots. If you do not have a rideshare permit, you cannot park in the rideshare spaces. Rideshare permits are not valid at the Vacaville Center. Rideshare vehicles must contain 3 or more students for the permit to be valid.

**Visitor Parking:** Limited 30-minute visitor parking spaces are available at the campus in lot #1. They are marked "Visitors Parking" and are located along the white curb line. For visits longer than 30 minutes, purchase a daily permit from the red dispensers located in lots 1-5 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 to be used by faculty, staff or students.

**General Information:** Parking decals are good for all 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 Office of Admissions and Records (Bldg. 100). An Amnesty Program and an appeal process are available for parking citations. If you have any questions, please drop by the Police Department in Room 1109 (portable buildings) or call (707) 864-7131.

## PUBLICATIONS

Solano Community College publishes a general Catalog annually, 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 newspaper, *The Tempest*. The College also maintains a website with current information on classes, programs and services: [www.solano.edu](http://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 building 1109. A person may report any criminal action or other emergency by calling extension 355. The non-emergency number is extension 369 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 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.

College 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.

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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 355. The non-emergency number for campus police is extension 369 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 355, 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 (Board Policy §5570), 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 seven 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.

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**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 the Office of 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 the Office of 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 the Office of 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.

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**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.

**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.

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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.

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 judgement 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

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## **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 1409) concerning requirements for holding a student government office. The A.S.S.C. meets weekly in room 1404 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. 645 or 252, or stop by room 1106 on campus.

## **CHILDREN'S PROGRAMS**

The Solano Community College Children's Programs include full and part-day programs for children from four months-of-age to kindergarten entrance, as well as morning and afternoon preschool programs for three- and four-year-old children. The Children's Programs are sponsored by the Early Childhood Education Department and are designed to provide a high quality, developmentally appropriate educational experience for the children, while providing safe, reliable child care for student

parents. Early Childhood Education students learning to be teachers of young children complete their student teaching "practicum" requirement in the Children's Programs and add their enthusiasm and creativity to the programs. The programs for each age group are interesting and varied, with art, science, math, music, cooking, manipulatives, story time, and outdoor activities offered daily in the preschool programs. Programs for the younger age groups focus on self-help skills, language development, and interpersonal social skill development.

The Children's Programs are housed in Buildings 200 and 400. Both have been carefully designed and beautifully equipped to meet the needs of the children and teachers in the programs. The Children's Programs are open from 7:45 a.m. to 3:30 p.m. during the school year. Children are placed in the infant, toddler, two-year-old, or preschool group based on their age and maturity, and may attend for full or part-day.

Student parents are assigned a schedule in the center based on their college class schedule. Monday-Wednesday-Friday, Tuesday-Thursday, or five-days-per week schedules are available.

The Children's Programs are open to the students, faculty, and staff of Solano College. Community children may attend on a space-available basis. Fees vary according to the parent's income and the child's age. A majority of our openings are state or federally subsidized with free or low-cost child care available to low income parents. Student parents enrolled in six units or more have priority for enrollment. Both school year and summer school programs are available.

Parents may place their child(ren) on the waiting list for either subsidized or non-subsidized enrollment by visiting the Children's Programs Office in Building 200. For more information, call the Children's Programs at (707) 864-7182.

## **COOPERATIVE AGENCY RESOURCES FOR EDUCATION (C.A.R.E.) PROGRAM**

The CARE Program provides additional support services to EOPS students. Eligibility criteria for the CARE Program: must be an EOPS student, at least 18 years of age and a single parent head-of-household, a current recipient of CalWORKs, have one child under 14 years of age, and be enrolled full-time at Solano College. Support services provided to CARE students include: assistance with child care expenses, textbooks-supplies, and trans-

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portation costs; meal reimbursement, counseling and advisement, personal development activities; and help from peer counselors who are often single parents. For more information, contact the EOPS Office at (707) 864-7000 ext. 444.

## 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.

Counselors are available on a same day appointment basis on the main campus. Vacaville, Vallejo and Travis centers have limited same day appointments. For specific times of services or more information for the main campus or Travis Air Force Base Center, please stop by the Counseling Office located in the Library/Student Services Building (Bldg. 100) or call (707) 864-7101. For appointments in Vallejo, call (707) 642-8188 and for Vacaville appointments, call (707) 446-2900.

## 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 1/2 to 1 unit per semester up to a maximum of 3 units.

## EXTENDED OPPORTUNITY PROGRAMS AND SERVICES (EOPS)

EOPS offers services to students who are both financially and educationally disadvantaged. Additional eligibility criteria for the EOPS Program includes:

- Be a legal resident of California
- Be enrolled in 12.0 semester units at Solano College
- Qualify for Fee Waiver A or B
- Be educationally disadvantaged according to state defined Title V Education Code

Services include assistance in transferring to four-year colleges and universities; academic,

career and personal counseling; EOPS orientation; book services; and priority registration. For more information, contact the EOPS Office, in room 1104, in the portable buildings; or call (707) 864-7000, ext. 444, or go online at [www.solano.edu](http://www.solano.edu) and click on Financial Aid.

## FINANCIAL AID PROGRAMS AND ELIGIBILITY

**Introduction: There are three basic types of financial aid:**

- Grants - Awards that a student does not have to repay, unless the student drops all classes before completing 60% of the semester.
- Federal Work-Study - Part-time work earned monthly.
- Loans - Money that a student can borrow and must repay with interest.

**How to Apply for Financial Aid:** All students are encouraged to apply for the array of Federal and State Financial Aid programs offered at Solano Community College. By completing the Free Application For Federal Student Aid (FAFSA) or Renewal FAFSA, students will automatically be considered for most federal and state programs.

The FAFSA is typically available in December of each year and should be completed and mailed to the United States Department of Education processing center between January 1 and no later than March 2 to meet the Solano Community College priority filing date. Students must reapply each year. Students are encouraged to apply over the internet at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). For more information, go online to [www.solano.edu](http://www.solano.edu) and click on Financial Aid.

**Fee Waiver Program:** All California residents are encouraged to apply for a state funded Board of Governors (BOGG) Fee Waiver to meet the California Community College mandatory enrollment fee. By completing a one page application at least 24 hours before registration, students may be considered for one of the fee waivers as follows:

**BOGG-A:** You or your family are receiving public assistance from CalWORKs/Temporary Assistance for Needy Families (TANF) or Supplemental Security Income (SSI) or General Assistance/General Relief or have certification from the California Department of Veterans Affairs. Verification is required.

**BOGG-B:** You meet the following income standards:

Family Size	2005 Income
1	\$14,355
2	\$19,245
3	\$24,135
4	\$29,025
5	\$33,915
6	\$38,805
7	\$43,695
8	\$48,585
Each additional family member	\$ 4,890

**BOGG-C:** You have completed the Free Application for Federal Student Aid (FAFSA), and have “financial need” based on the Student Aid Report.

Other federal and state financial aid programs available at Solano College include (all programs have a March 2 filing deadline):

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work-Study (FWS)
- Extended Opportunity Programs and Services/Grant (EOPS) - State funded
- Federal Stafford Loan
- CAL Grant A,B,C
- California Community College Transfer Entitlement Awards
- CAL Grant A and B Competitive Awards
- California Chafee Grant for Foster Youth

#### Special Note on Financial Aid Eligibility Requirements:

- All applicants must be a U.S. citizen or eligible noncitizen.
- Students attending both high school and Solano Community College are not eligible to receive Financial Aid.
- Because the U.S. Department of Education requires a degree or certificate program to be at least one year in length, students in Fire Technology Academy, Emergency Medical Technician, Special Manicuring Program, and Esthetics Program do not qualify for federal student aid.
- All applicants who do not have a high school diploma, a GED, or who have not passed the high school proficiency test must pass the SCC Ability To Benefit test.
- Students under the age of 18 who possess a high school diploma, GED, or who have passed the high school proficiency test will

be required to meet with the Dean of Special Services and the Dean of Counseling.

- All male students 18 years or older must be registered with the selective service or must be on active duty to satisfy this requirement.
- A student cannot be in default on a federal student loan or in repayment for a federal Pell Grant or SEOG.

#### I. Satisfactory Academic Progress

Continuation on financial aid programs is based on financial eligibility and the student maintaining satisfactory academic progress. Federal regulations require Solano College to establish Standards of Satisfactory Academic Progress for students receiving financial aid. A student not meeting this standard will lose his/her eligibility until that time that the student meets the required academic conditions.

A student meeting the financial aid satisfactory academic progress standard is one who maintains a minimum semester grade point average of 2.0 (C) and completes at least 2/3 (66.6%) of all units attempted in an academic year. The performance of all students will be reviewed at the end of each semester and the overall academic progress will be determined once each year at the end of the spring semester. Students will be notified if their eligibility may be in jeopardy.

#### II. Probation

If the above conditions are not met during a given semester, the student will be placed on Financial Aid Probation for the following semester of attendance. The student will be allowed to receive financial aid during the probationary semester. However, if the student fails to meet the satisfactory academic progress standard during the probationary period, the student will be disqualified from financial aid assistance.

#### III. Disqualification

Students may be disqualified from receiving financial aid if they have:

- 1) Completed less than 2/3 (66.6%) of the total cumulative units attempted for the academic year; or
- 2) Completed the equivalent of 6 full-time semesters; or
- 3) Completed 90 units (30 remedial units will be deducted from this maximum).

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#### IV. **Grade Interpretation**

- 1) Grade symbols of A, B, C, D, and CR will be considered acceptable for satisfactorily completed courses.
- 2) Grade symbols of F (failing), NC (no credit), W (withdrawal), I (incomplete), IP (in progress), and RD (report delayed) grades will not be considered as completed or contributing to satisfactory academic progress. NOTE: These units will be counted as contributing to the 90 units limit. The student is responsible for reporting changes in I, IP, and RD grade standings or any units completed outside the academic year or any further unit completion outside the academic year to the Office of Financial Aid for reconsideration of satisfactory progress.

#### V. **Appeal Process**

A student who is disqualified may have eligibility reinstated once the required minimum units and grade point average are completed. A student may also appeal if there were unusual or mitigating circumstances that affected the student's ability to make progress. Documented considerations to reinstate financial aid eligibility may include:

- 1) Serious illness;
- 2) Death in immediate family;
- 3) Reason beyond the control of the student.

#### VI. **Program Disqualification and Ineligibility**

Financial aid disqualification described above applies to Federal Pell Grants, Federal Supplemental Educational Opportunity Grants, Federal Work-Study and Stafford Loans, and Parent Loan for Undergraduate Students (PLUS).

### **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 1407, and is open Monday through Thursday, 8 a.m. to 7:00 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 Commission on Athletics. Solano College is a member of the Bay Valley Conference and Nor Cal 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 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 15 Intercollegiate Baseball (Spring)  
ATHL \*16.1/16.2 Intercollegiate Basketball (F/S)  
ATHL 17 Intercollegiate Football (Fall)

#### **Women**

ATHL 1 Intercollegiate Volleyball (Fall)  
ATHL \*2.1/2.2 Intercollegiate Basketball (F/S)  
ATHL 3 Intercollegiate Softball (Spring)  
ATHL 4 Intercollegiate Soccer (Fall)

#### **Men and Women**

ATHL 10 Intercollegiate Swimming/Diving (S)  
ATHL 20 Intercollegiate Water Polo (Fall)

\*One unit, nine week courses only.

### **LIBRARY**

The Library, located in the Library/Student Services Building (Bldg. 100), offers an online catalog which provides access to over one million volumes of print and non-print materials via 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 and digital serials. The Library provides free, daily delivery of SNAP materials located at other SNAP libraries. A valid SNAP Library card is required to access library services. The Library houses a reserve collection of class-related materials, videotapes that supplement distance-learning classes, 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

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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, Information Competency and Web Searching courses.

The Library is open Monday through Friday, both day and evening hours when classes are in session, and closed on all school holidays and breaks between sessions. Check in the Library/Student Services Building atrium for the current, posted hours of operations.

## **MATHEMATICS, ENGINEERING AND SCIENCE ACHIEVEMENT (MESA)**

The MESA program offers a wide range of support for students majoring in math, science or engineering at Solano Community College. 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 center, and MESA 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 (707) 864-7000, ext. 498, or log on to [www.solanomesa.org](http://www.solanomesa.org).

## **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 4 units per semester and 12 units of total credit is available through this program. 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](mailto:debra.berrett@solano.edu).

## **OFFICE OF ADMISSIONS AND RECORDS (OAR)**

The Office of Admissions and Records is located in the Library/Student Services building. The office is open to assist students from 8 a.m. to 7 p.m., Monday through Thursday, and 8 a.m. to 3 p.m. on Friday.

Registration dates, times, and locations for each term and the summer session are printed in the Academic Calendar and the Schedule of Classes and are available on our web site at [www.solano.edu](http://www.solano.edu). Students may take advantage of telephone, in-person, or Web registration.

## **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 83-Applied Psychology and COUN 50-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. 101.

## **READING LAB**

The English Department operates the Reading Lab in room 130 of the Library building to assist students with problems in reading and research. Any student can enroll in English 320, Reading Lab, and earn from 1/2 to 3 units of credit depending on learning modules completed.

## **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 other colleges and 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 follow-

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ing scholarships are usually offered on an annual basis at Solano Community College:

Alpha Gamma Sigma Scholarship Society  
Allison Rael Banks Memorial  
Jim Bracy Scholarship  
Frank Buck Scholarship  
Cal Grant A, B, & C  
Chancellor's Office Real Estate Scholarship  
Delta Kappa Gamma Delta, XI Chapter  
Doris M. Higgins Scholarship  
Fairfield-Suisun Rotary "Most Deserving"  
Scholarship  
Bill Gates Millennium Scholarship  
Golden Gate University Scholarship  
Vallejo Business & Professional Women's Club  
Malcolm X Scholarship  
Nursing-La Societe Des Quarante-Hommes et  
Huit Chevaus (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  
Mooy - Durkin Memorial Scholarship

Students interested in applying for these scholarships should contact the Financial Aid Office, room 162, for additional information.

## SCHOLARSHIP FOUNDATION

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

Beginning in 1974, there were three awards presented to students. In 2005, over \$20,000 in scholarships was awarded to Solano students. The goal of the Foundation is the promotion of scholastic excellence by providing a program that will identify, recognize and reward outstanding scholars attending Solano Community College.

The Scholarship Foundation administers the following two programs:

### **The Scholastic Achievement Program:**

The primary criteria in judging is scholastic excellence for full-time continuing students. Qualified potential candidates are identified during the summer from the current Dean's Honor Roll.

### **The Memorial/Special Endowment Programs**

With the first memorial program starting in 1975, there are currently 47 programs established in commemoration of specific individuals or purposes. Each program has a designated major or qualifying special requirement to determine eligibility for consideration. **Available programs include:**

Academic Senate Scholarship - Distinguished Scholar  
Associated Students Solano College Scholarship Award  
Associated Students Distinguished Leadership/Service Recognition Award  
Chloe Beavers Tribute - Cosmetology  
Dr. Marge Blaha Memorial - Re-entry, female, various transfer majors  
California Teachers' Association - Education/Teaching  
Jean Chapman Scholarship - Science  
Naomi "Chris" Christensen Memorial - Music  
Joe Clevenger Tribute Scholarship - Business Administration  
James "Jim" Cooper Memorial - Business  
John and Carol DeKlor Biotechnology Scholarship  
Ray O. Duey Memorial - Registered Nursing  
Eddie Edwards Memorial - Re-entry  
Jane H. Ford Memorial - English, Education/Teaching  
Robert D. Ford Memorial - Science  
Gilbert Memorial - Re-entry; History major preference  
Rachel Goodwin Memorial  
Chuck Gray Memorial - Photography  
Phillip Moses Gray Memorial - Re-entry Male  
Dr. Carolyn Anne Green Memorial - Registered Nursing, 2nd year  
Peggy Gross Memorial - Audubon, wildlife interest/concerns  
Bob Hamilton Memorial - Science  
Ralph Hanson Memorial - Language Arts  
Beulah Hawkins Memorial - Re-entry, female, art commentary on "I Can Have My Career and a Family"  
Hosley Family Scholarship  
Margaret Lee Jenkins Memorial - Cosmetology  
Carmen Camille Cook Johnson Memorial - Re-entry, ECE, Social Science, Education  
Kirkorian Family Memorial - Education  
Clyde Low Scholarship - Library Science or History  
Jim Mills - Biotechnology Scholarship  
Martin Mini Memorial Scholarship  
Diana Muir Memorial - English  
Mary C. and Henry A. Ornellas Memorial - Fashion Design, Music or Cinematography  
Dr. Delphine Palm Memorial - Biological Science/Medical field  
Robert "Bob" Pokorny Memorial - Education/Teaching  
Henry Power Memorial - Aeronautics  
Dr. Sally Ralph Memorial - Psychology/Counseling  
Clarence Rose Memorial - Engineering/Mathematics  
Steve Ryder Memorial - Nature awareness/appreciation

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Art and Myrna Satterlie Scholarship - Engineering/  
Mathematics/Computer Science  
Don Siegel Journalism Scholarship  
Sierra Club, Solano Group - Environmental  
concerns/awareness  
Taylor Memorial - Re-entry  
Mac Tilley Memorial - Electronics  
Malcolm Tipp Memorial - Business  
Charlotte Waggy Memorial  
Lawrence "Jack" Wheeler Memorial - Counseling  
Bill and Jean Wilson Memorial - Leadership/Service  
with preference in Athletics  
Morgan "Porky" Wood Memorial - Athletics

A brochure on the Scholarship Foundation Program is available at the Student Services Office or the Financial Aid Office. For any inquiry and further information, please contact: SCC Scholarship Foundation; P.O. Box 2208; Fairfield, CA; 94533; or phone (707) 864-7202.

### **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 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 864-7168, or pick up a packet from room 1409.

### **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 1409, or call ext. 367.

### **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. 122. 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 1409), the Vice President of Student Services (room 144), and the Counseling Office (Library/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.

### **STUDENT CONDUCT & DISCIPLINE**

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.

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**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 headsets, walkmans, 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.

**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 1409), the Vice President of Student Services Office (Room 144), and the Counseling Office (Building 100).

**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 144).

## STUDENT DEVELOPMENT OFFICE

The Student Development Office, located in room 1409 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 367.

## STUDENTS WITH DISABILITIES

**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) 864-7000, extension 316, or come to room 1105.

**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.

## SUCCESS CONSORTIUM

**STAP (Student Transfer Assistance Program):** STAP serves students who come from groups with historically low college eligibility and attendance rates. The services include informational and motivational workshops or one-to-one advisement designed to assist students in completing their Solano studies successfully and in preparing to transfer to four-year institutions, including assistance in completing admissions and financial aid applications, free trips to four-year campuses, opportunities to talk with professionals from numerous career fields, and free informational materials. For more information, contact the SUCCESS office at (707) 693-2004/2006.

**SUCCESS in the Schools:** In addition to STAP, the SUCCESS program hires Solano students to work in 30 public schools and after-school programs throughout Solano, Yolo and Napa Counties. Through the school year, as many as 50 student employees offer advisement and tutoring support for over 2,500 students in the 4th to 12th grade program.

Student employees work part time from 4-20 hours per week at off-campus sites, scheduling their hours of work around their class schedules. To request an application for employment, contact the SUCCESS office by calling (707) 693-2006/2004.

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## **TECHNOLOGY & LEARNING RESOURCES CENTER**

The Technology & Learning Resources Center Office is located in the Library/Student Services Building (Bldg. 100). The Center is responsible for all matters related to data processing services, strategic technology planning, library automation, distance learning and state and local data/telephone network planning and implementation. It exercises overall responsibility for administrative computing, academic and instructional technology support programs, telephone switching equipment, network infrastructure, local and wide area networks, media, library and teleconferencing. The Center's office is open Monday through Friday, 8 a.m. to 4:30 p.m., and closed on all school holidays and breaks between sessions.

## **TRANSCRIPTS-SOLANO COMMUNITY COLLEGE**

Upon written request, two official transcripts of record, bearing the signature of the Dean of Admissions and Records, will be mailed without charge. Additional copies are \$2 each, payable in advance. Unofficial copies are accessible on the college web site at: [www.solano.edu](http://www.solano.edu). A minimum of five to ten working days should be allowed for processing transcript requests. Express service (one hour maximum) is available. The cost is \$7.50 per transcript. Test scores and transcripts from other colleges are not a part of the Solano College transcript and must be requested from the appropriate testing company or college.

## **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 1409. Also, bus schedules are available on the college website at [www.solano.edu](http://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 in the portables, room 1102, or call (707) 864-7230.

## **VERIFICATION OF ENROLLMENT**

Upon written request, two verifications of enrollment will be provided, free of charge, by the Office of Admissions and Records. A \$1 fee will be charged for each verification of enrollment thereafter. Please allow five to ten working days for processing.

For round the clock service, 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 Website at [www.studentclearinghouse.org](http://www.studentclearinghouse.org). There is a \$2.50 cost for this express service.

## **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 Office of Veterans Affairs (VA) provides assistance to veterans, reservists and eligible dependents of veterans in their pursuit of an education and in obtaining their Veterans Educational Benefits. VA also offers additional allowances through a work-study program for those who are receiving Veterans Educational Benefits. For specific information regarding eligibility of Veterans Educational Benefits, please visit our office located in Building 100, room 101, 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 from 1/2 to 3 units of credit depending on learning modules completed. Students may also register for English 64, Writing the Research Paper, and earn from 1/2 to 1 1/2 units.

# *Admission and Registration*

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## **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 coursework
- ▲ 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)

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## **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 Office of Admissions and Records, 4000 Suisun Valley Road, Fairfield, CA 94534.

### **APPLICATION FOR ADMISSION**

Applications for admission with detailed instructions are available from the Office of Admissions and Records (OAR) and are available on the college website at : [www.solano.edu](http://www.solano.edu). An application must be submitted if a student is:

1. A new student entering Solano 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.

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## SPECIAL ADMISSION (K-12)

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

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

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

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

Students that are concurrently enrolled in K-12 can make up no more than 10% enrollment of any P.E. course (California State Education Code Section 76002). The authorized enrollees are determined by their enrollment "time and date." The first 10% to enroll are authorized enrollment in each course.

## INTERNATIONAL STUDENT ADMISSION

Solano College admits a limited number of international students each year. All documents must be on file in the Office of Admissions and Records no later than June 1 for the fall semester, and November 1 for the spring semester. Applicants are not considered for summer session. 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 173 on the computer-based test is required for admission.
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 \$160 per unit for the 2006-2007 school year. All fees are subject to change by the Board of Governors. Contact the Counseling and Guidance Office for an appointment.

## 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 Office of Admissions and Records.

## 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 and will serve as your login ID for web and telephone registration. It should also be used on all correspondence and forms. 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 Office of Admissions and Records.

## 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) **First:** complete and file an "Application for Admission" with the SCC Office of Admission & Records (OAR) [Note: this can be done online at the SCC website: [www.solano.edu](http://www.solano.edu) ]
- 2) **Next:** 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) **Also:** complete an on-line orientation session, found on the College's website under "Counseling" ([www.solano.edu/counseling](http://www.solano.edu/counseling)) or enroll in COUN 101-Orientation for College Success (1 unit)
- 4) **Then:** meet with a counselor
- 5) **Finally:** register for classes

Additional information may be obtained from the Counseling Center or at the Office of Admissions and Records. The Assessment Center schedules all matriculation tests. The Center is located in room 1635, Building 1600. The schedule for testing is

published each semester in the Schedule of Classes. After the start of a semester, the monthly schedule of additional testing sessions is posted in the Counseling Center and at the Assessment Center Office. Students may also phone (707) 864-7000, ext. 525 for the current week's assessment dates, times, and location.

**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.

### COUNSELING PROGRAM

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.

### DEBTS

- Most debts for the current semester that are associated with RSVP and Web registration can be paid online. If you do not have Internet access or your debt involves special circumstances, you must submit payment to the Office of Admissions and Records (Building 100).
- Outstanding debts associated with RSVP and Web registration from previous semesters must be paid at the Office of Admissions and Records (Building 100).
- Returned checks are turned over to a collection agency. There is a \$15 service charge for each returned check. This debt is payable at the Credit Bureau of Fairfield, 460 Union Avenue, Fairfield.

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- All other debts must be paid to the Cashier in Fiscal Services (Building 600).

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.

## 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 505 Santa Clara Street, Vallejo, (707) 642-8188. Travis University Center is located at 530 Hickam, Travis AFB, (707) 424-2431. The Vacaville Center is located at 1990 Akerly Drive, Vacaville, (707) 446-2900.

Students should consult the Schedule of Classes for specific locations and times. For convenience, registration for off-campus classes can be accomplished through the R.S.V.P. telephone system, online at the College website, or in-person on campus. 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 website at: [www.solano.edu](http://www.solano.edu), or by calling the Office of Admissions and Records (707) 864-7171. It is advised that for classes offered at the Travis University Center students should view the Solano Community College website 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, home-study and television courses. 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 1409 (Bldg. 1400).

## SCHEDULE OF CLASSES

The Solano College Schedule of Classes, published prior to each semester and the summer sessions, includes registration procedures and all necessary forms, calendar dates, program and general information, and course offerings with brief descriptions. Detailed information on programs and courses may be found in this catalog. Schedules are

available at the Office of Admissions and Records, the Bookstore and in the Administration Building. A searchable class schedule is online at [www.solano.edu](http://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 Office of Admissions and Records (OAR). The Office of Admissions and Records is a convenient place to ask questions about College procedures or visit our website at [www.solano.edu](http://www.solano.edu).

The following registration procedures apply to students enrolling in day, evening, on-campus, and off-campus classes. All debts to the College must be cleared before students may register for classes.

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

The Schedule of Classes contains an Application for Admission, registration information and instructions, and a telephone registration worksheet. Registration is conducted by priority. The priority registration definitions/schedule are listed in the Schedule of Classes. Students may pay their fees by mail. Registration payments must be received within 10 working days or you may be dropped. The College is not responsible for lost or delayed mail. Registration receipts are sent once payments are received and processed.

Register online through the College website at: [www.solano.edu](http://www.solano.edu) or by phone (R.S.V.P.) at (707) 864-1006.

Register in person: The dates and schedule are included in the academic calendar and in the Schedule of Classes. Registration by proxy is permissible. Fees are due and payable at the time of in-person registration.

## LATE REGISTRATION

During the first week of each semester, students may register for additional courses if class space is available. (See academic calendar 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 via RSVP telephone registration or online via the College website.

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2. All enrollment fees must be submitted on or before the last day to register or add classes (see academic calendar for specific dates).

### **Dropping Classes:**

1. Students may drop classes by telephone or online at [www.solano.edu](http://www.solano.edu) up to the 62.5% date of the course. Students wishing to drop classes in person should complete and turn in a drop card.
2. Students may be dropped from class by the instructor if they do not attend the first class meeting. Students are required to drop classes by telephone, online or submit a drop card to OAR if no further attendance is contemplated.

### **FEES**

Fees are due and payable within 10 days of registration when using RSVP or online registration. All debts to the College must be cleared before students may register for classes.

Students are responsible for officially dropping their courses before the deadline. 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. You may drop courses online, by phone or in person at the Office of Admissions and Records.

### **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 05-06 academic year, effective the first day of the summer session, 2006, is \$160 per unit. All non-resident students are also required to pay enrollment fees.

### **ENROLLMENT FEES AND OTHER COSTS**

- Enrollment fee: \$26 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 record fee (Transcript): \$2 (first two are free); \$7.50 Express service; \$1 unofficial transcript.

- Student record fee (Enrollment Verification): \$1 (first two are free). Express service through the National Student Clearinghouse: \$2.50.
- Student Records fee: \$.50
- Telephone Registration: \$1
- Health fee: Fall/Spring-\$13.00; Summer-\$5.00
- General College Catalog: \$5.00 (\$7.00 by mail)
- 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).
- 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
- Returned checks: \$15

\* 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.

Solano College Office of Financial Aid will waive the enrollment fee for qualifying students who apply. A Financial Assistance Program provides three ways to help low-income students pay the enrollment fee. Students eligible in one of the three following areas should visit the Financial Aid Office, Room 162, Library Building, before registering for classes and complete an enrollment fee waiver form.

—A—

**To be eligible a student must:**

- Be a California resident
- At the time of enrollment you or your family are receiving public assistance from CalWORKS/ Temporary Assistance for Needy Families (TANF) or Supplemental Security Income (SSI) or General Assistance/General Relief or have certification from the California Department of Veterans Affairs.
- Apply for an enrollment fee waiver.
- Sign a statement, under penalty of perjury, that they are a program recipient.
- Provide documentation, such as Medi-Cal card, CalWORKS or SSI check or Untaxed Income Verification Form to prove that they are receiving benefits.

—B—

**To be eligible a student must:**

- Be a California resident.
- Meet these income standards:

Family Size	2005 Income
1	\$14,355
2	\$19,245
3	\$24,135
4	\$29,025
5	\$33,915
6	\$38,805
7	\$43,695
8	\$48,585
Each additional family member	\$ 4,890

—C—

**To be eligible a student must:**

- Be a California resident.
- File a free application for Federal Student Aid (FAFSA) and show financial need.
- Provide the Student Aid Report based on filing the Free Application for Federal Student Aid (FAFSA).

Contact the Financial Aid Office for complete details on the Fee Waiver Program or go online at [www.solano.edu](http://www.solano.edu) and click on Financial Aid.

**APPLYING FOR REFUNDS**

Fees are not automatically refunded. A student must file a Request for Refund form, available at the Office of Admissions and Records, by the deadline dates outlined in the Academic Calendar. A processing fee and any debts are deducted from refunds. Fees are refunded by check, four to six weeks after late registration ends.

**1. California Community Colleges Enrollment Fee**

**Fall and Spring Semesters**

Through the second week of instruction, 100% of the California Community Colleges Enrollment Fee will be refunded less a \$10 processing fee.

**Refunds will not be approved if courses are dropped after the second week of instruction.**

**Summer Session and Short-Term Courses**

Through the second day of instruction, 100% of the California Community College Enrollment Fee will be refunded less a \$10 processing fee.

**Refunds will not be approved after the second day of instruction.**

**2. Non-Resident Tuition**

Non-resident tuition and international students tuition are refunded when the Request for Refund form is received in the Office of Admissions and Records or postmarked by the deadline date according to the refund schedule below and under the following conditions:

- a. The tuition was collected in error or as a result of a reduction of the educational program at Solano College.
- b. As a result of a student's withdrawal from a class, or classes, according to the date the Request for Refund form is received in the Office of Admissions and Records.
- c. Students will be charged a \$20 processing fee for tuition refunds. This processing fee is in addition to the processing fee charged for enroll fees.

**TUITION REFUND SCHEDULE**

**Fall and Spring Semesters**

Before instruction begins	100%
During the 1st week of instruction	75%
During the 2nd week of instruction	50%
During the 3rd week of instruction	25%
After the 3rd week of instruction	0%

**Summer Session and Short-Term Courses**

Before the 1st day of instruction	**100%
The 1st day of instruction	**75%
The 2nd day of instruction	**50%
The 3rd day of instruction	**25%
After the 3rd day of instruction	**0%

\* Less \$20 processing fee.

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\*\* Days of instruction refer to the number of days in the session, not to the number of individual class meetings.

### **3. Parking Fee**

The parking fee is refundable if the Request for Refund form and the original receipt and decal are received in the Office of Admissions and Records by the end of the second week of instruction or by the second class meeting for short term courses..

### **4. 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 Office of Admissions and Records by the end of the second week of instruction or the second class meeting for short-term courses.

### **5. 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.

### **6. Student Records Fee**

The Student Records fee is only refundable if the student has no official grade of record for the semester.

### **7. Telephone Registration Access Fee**

The fee to register by telephone is nonrefundable.

# Academic Regulations

## ACADEMIC COUNCIL PETITIONS

Any student who has a problem regarding their academic performance, enrollment status or registration/withdrawal procedures may petition the Academic Council. Petition forms are available from the Office of Admissions and Records, the Counseling Division Office, the Office of the Vice President of Student Services, or on the web. Petitions to the Academic Council can relate to any of the following issues and circumstances:

- **Dropping a class after the deadline has passed:** Due to extenuating circumstances, specifically, illness, accident or conflict with hours of employment [a physician's statement on letterhead stationary is required to support medical reasons; an employer's statement on letterhead stationary is required to support the change of hours as a condition of continuing (not new) employment];
- **Adding a class after the deadline has passed:** Only due to extenuating circumstances.
- **Repeating a course previously completed successfully (with a grade of "C/CR" or better):** Due to extenuating circumstances that affected the previous grade [three or more years must have passed since the course was completed and there **must** be a compelling reason why a grade higher than a "C/CR" is required in the course].
- **Receiving a refund of fees after the deadline has passed:** Only under extenuating circumstances.
- **Being readmitted after academic disqualification:** The petition **must** be reviewed and signed by a counselor before the Academic Council will consider the request.
- **Requesting Academic Renewal or substitution/waiver of graduation requirements or requirements in a major:** Either the "Academic Renewal" (request to disregard previous work) form or the "Substitution and/or Waiver of Graduation or Major Requirements" form must also be submitted with the petition.

Every student who petitions the Academic Council is notified by the Vice President of Student Services, in writing, concerning the action taken by the Council and his/her petition.

Any student who is dissatisfied the Council action may request a second "petition review" by the Council or an opportunity to meet with the Council in order to discuss the petition. Such requests should be made to the Vice President of Student Services.

## 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 semester or cumulative grade point average (GPA) 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 those units.

### B. Removal from Progress Probation

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

## 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 GPA 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 NC for three consecutive semesters.
3. The student achieves a semester GPA 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):

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### 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 2.0 or greater, shall remain on academic probation until the cumulative GPA is 2.0 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 NC are less than 50% of all units attempted.

## ACADEMIC RENEWAL

The open-door policy of the community college provides students of diverse abilities and aspirations with an opportunity to achieve success. Some students find that their early attempts at college have not been successful. It is not uncommon for students to return to college later and perform in a very satisfactory manner.

The academic renewal policy provides for the alleviation of previously recorded, substandard academic work (grades of D, F or NC) not reflective of a student's current scholastic ability. A student may petition to eliminate up to 30 units of substandard course work, provided the courses were completed at least three semesters prior to the petition, and the student has completed at least fifteen (15) units with a grade of C or better at an accredited post-secondary institution subsequent to the course work to be alleviated. The permanent academic record will be coded to indicate that the original grades will **not** be reflected in the grade point average; however, the courses will remain on the permanent record.

Final approval/disapproval for renewal will be granted by the Academic Council. Courses eliminated may not be applied toward any degree or certificate requirement. Solano College may honor the Academic Renewal Policy of other accredited institutions in disregarding previous academic work.

## 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 Office of Admissions and Records.

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](http://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 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
CR	Credit (at least satisfactory)	0
NC*	No Credit (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

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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.)

## CREDIT/NO-CREDIT OPTION

The purpose of the credit/no-credit 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 CR grade represents a letter grade of A, B, or C. The NC 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 credit/no-credit grade, and a credit/no-credit grade cannot be changed to a letter grade unless the course is repeated. A course in which a grade of NC has been earned may be repeated once for a CR or letter grade. Some courses are offered only on a CR/NC 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 CR/NC grades in any regular graded class offered by the College but they are limited to a total of 15 semester units under the CR/NC option while attending Solano College. In order to exercise this option, a petition must be filed with the Office of Admissions and Records 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 CR/NC grades. Students should not take the CR/NC grade option in their major fields of study.

## GRADE REPORTS

Grade reports will be mailed to students approximately four weeks after the semester ends. Grades are available at the College website under Online Services.

## 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. If the instructor of the course is no longer on campus, the manager will make arrangements to change the incomplete grade. **Students may not re-enroll in a course where they have an Incomplete Grade.** 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 four 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 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.

**Dean's:** The Dean's Honor List recognizes those students who earn academic honors each semester. The Dean's 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.

**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 1403B 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.

**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 1409. For detailed membership eligibility information, contact (707) 864-7000, ext. 367.

**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

**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 NC 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 1/2 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 1/2 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 1/2 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 Office of Admissions and Records.

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

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## 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 College. This includes regular attendance, completion of examinations, assignments, participation in class activities and discussions. Instructors shall provide students with written statements describing course requirements, grading standards and course prerequisites.

Regular attendance is an obligation assumed by every student at the time of registration. Absences per semester should not exceed the number of hours or the number of days, as determined by the instructor, that a class meets per week. Absences in excess of the maximum may result in students being dropped from classes or having their grades lowered. Students who fail to attend their classes may be dropped by their instructors no later than the end of 62.5 percent of a full-term class, short-term class, or summer session.

Students have the responsibility for verifying their enrollment status. If students withdraw from classes, it is their responsibility to make sure that drop cards have been submitted to the Office of Admissions and Records or that they have completed the withdrawal via RSVP telephone or online services.

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 Office of Admissions and Records.

### 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 Office of Admissions and Records or complete the drop process by using the RSVP telephone system or web online services. 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. You may drop courses online, by phone or in person at the Office of Admissions and Records.

A student may withdraw from a class during the first four weeks of instruction by filing a drop card with the Office of Admissions and Records or complete the drop process by using the RSVP telephone system or web online services. Courses dropped by the end of the first four weeks of instruction will not appear on the student's record.

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.

The student must petition the Academic Council and provide documentation to verify cases of accidents, illnesses, or other circumstances beyond the control of the student.

### 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 Office of Admissions and Records or the withdrawal using the RSVP telephone system or 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.

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## Academic Honesty

The College community functions best when its members treat one another with honesty, fairness, respect and trust. Therefore, an individual should realize that deception for the purpose of individual gain is an offense against the members of the college community. Such instances of dishonesty include:

**Plagiarism:** Although difficult to define, plagiarism consists in taking the words or specific substance of another and either copying or paraphrasing the work without giving credit to the source. The following examples are only some of the many forms plagiarism may take.

1. Submitting a term paper, examination or other work written by someone else. This is a flagrant instance of plagiarism.
2. Failure to give credit in a footnote for ideas, statements of facts or conclusions derived by another.
3. Failure to use quotation marks when quoting directly from another, whether it be a paragraph, a sentence or even a part thereof.
4. Close and extended paraphrasing of another.

**Cheating:** Using unauthorized notes, study aids, or information from another student or student's paper on an in-class examination; altering a graded work after it has been returned, then submitting the work for re-grading; and allowing another person to do one's work and to submit the work under one's own name.

**Fabrication:** Presenting data in a piece of work which were not gathered in accordance with guidelines defining the appropriate methods for collecting or generating data and failing to include a substantially accurate account of the method by which the data were generated or collected.

**Aiding and abetting dishonesty:** Providing material or information to another person with knowledge that these materials or information will be used improperly.

**Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false or incomplete information to a campus:** Altering documents affecting academic records; forging a signature of authorization or falsifying 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:** Instances of alleged plagiarism or any other form of academic dishonesty may be referred to the Vice President of Student Services for action

in accordance with the established disciplinary procedures as set forth in Solano Community College Board Policy 5300. Following procedures consonant with due process, a student may be expelled, suspended, placed on social probation or given a lesser sanction if he or she is found to have committed an act of academic dishonesty. The totality of the particular circumstances, the student involved, and any relevant mitigating factors shall be considered in every case.

# 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 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 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 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	SCC CREDIT AWARDED	EQUIVALENT COURSE & (SCORE)
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### General Examinations:

English Comp (with essay)	3 units	ENGL 1 (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	POLSC 1 (50)
History of the United States I: Early Colonizations to 1877	3 units	HIST 17 (50)
History of the United States II: 1865 to the Present	3 units	HIST 18 (46)
American Literature	6 units	ENGL 30, 31 (46)
Analyzing & Interpreting Literature	3 units	ENGL 2 (47)
English Literature	6 units	ENGL 30, 31 (46)
College Composition	3 units	ENGL 1 (50)
General Biology	5 units	BIOSC 2 (49)
Calculus with Elementary Functions	4 units	MATH 20 (50)
General Chemistry	5 units	CHEM 1 or 2 (48)
Introductory Psychology	3 units	PSYCH 1 (47)
Human Growth/Development	3 units	HU DV 38 (47)
Principles of Accounting	3 units	ACCT 1 (50)
Principles of Macroeconomics	3 units	ECON 1 (48)
Principles of Microeconomics	3 units	ECON 2 (48)
Introduction to Business Law	3 units	BUS 18 (50)
Information Syst & Computer Appl.	3 units	CIS 1 (50)
Principles of Marketing	3 units	MKT 171 (48)
Introductory Sociology	3 units	SOCIO 1 (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.

Equivalent Examination	Score	Awarded	Credit Course	SCC
<b>English</b>				
Language & Comp	3,4,5	3 units	ENGL 1	
Lit & Composition	3	3 units	ENGL 1	
Lit & Composition	4,5	6 units	ENGL 1, 2	
<b>Foreign Languages</b>				
French Lang	3,4,5	5 or 3	FRNCH 3 or 11	
French Lit	3,4,5	5 units	FRNCH 4	
German Lang	4,5	5 units	GERMN 4	
German Lang	3	5 or 3	GERMN 3 or 11	
Latin (Vergil & Caltilus/Horace)	3,4,5	3 units	LATIN 3	
Spanish Lang	4,5	5 or 3	SPAN 3 or 11	
Spanish Lang	3	5 units	SPAN 2	
Spanish Lit	4,5	5 units	SPAN 4	
<b>Humanities</b>				
Studio Art	5	6 units	ART 1 - 48	
Studio Art	3,4	3 units	ART 1 - 48	
Studio Art (Draw)	5	6 units	ART 1 - 48	
Studio Art (Draw)	3,4	3 units	ART 1 - 48	
Art History	5	6 units	ART 1, 2	
Art History	3,4	3 units	ART 1 or 2	
U.S. History	3,4,5	6 units	HIST 17, 18	
Eur History	3,4,5	6 units	HIST 4,5	
Music Theory	3,4,5	3 units	Elective	
<b>Natural Science</b>				
Biology	3,4,5	4 units	BIOSC 15	
Chemistry*	4,5	5 units	CHEM 1	
Computer Sc AB	3,4,5	3 units	CIS 22	
Calculus AB	4,5	4 units	MATH 20	
Calculus BC	4,5	8 units	MATH 20, 21	
		6 units	MATH 30, 31	
Physics B*	4,5	8 units	PHYS 2, 4	
Physics C*	4,5	4 units	CHEM 6	
<b>Social Science</b>				
Gov't & Pol of US	3,4,5	3 units	POLSC 1	
Econ (Micro)	3,4,5	3 units	ECON 2	
Econ (Macro)	3,4,5	3 units	ECON 1	

\* 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 the Division Dean before a student takes an examination for credit, and no examination may be repeated. The maximum

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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 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 ONLINE/HYBRID CLASSES

Solano College offers two types of internet classes for credit: Online and online/hybrid classes. These classes are taught either entirely over the internet (online sections) or partly over the internet and partly in the classroom (online/hybrid sections). Also, these classes have regular assignment schedules and reading material and the same learning requirements as traditional classes. Only the delivery formats differ.

Participation in online sections and online/hybrid sections require that students have a computer with internet access and a browser (Internet Explorer or Netscape) and an e-mail address that is on file with Solano College. To file your e-mail address, from Solano College's web page, go to "Online Services" and log in to the Student Information area. The individual classes will also have additional requirements such as a textbook and possibly a specific software program to be used.

Online: These classes utilize the internet and e-mail to create an educational experience that is completely independent of time and place. Students still purchase textbook(s) and take tests, but they do the majority of the class work at a computer connected to the internet. They work according to their own schedule, at home, in the office, or on general access computers on campus. All 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 e-mail and by participating in "threaded discussions" (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 have busy schedules, who do not or cannot travel to campus, who have access to a computer, and who like the idea of going to class when it is convenient for them.

Online/hybrid: These classes use a combination of the face-to-face and online formats. Typically, the class will meet as a group once a week, and the remaining time is spent online. Some activities will be conducted in a group (traditional class) format and some activities are conducted individually (online). These classes offer the best of both worlds - flexibility with the online portion and the sense of being in a group with the traditional class meeting.

## STUDY ABROAD PROGRAM

At Solano 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 College also has information on a wide variety of exciting opportunities such as volunteering abroad, exchange programs, internship abroad or work abroad programs.

Solano 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 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 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 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 100.

# Graduation Requirements

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Associate Degrees and Certificates of Achievement are awarded at the close of each semesters, 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. For most certificate programs, students who complete the series of courses with a **cumulative** grade point average of 2.0 or higher are eligible to apply for the Certificate of Achievement. Some programs, however, require that students complete **each** course within the program with a grade point of 2.0 (C) or better.

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.

## **Total Units**

A degree requires a minimum of 60 semester units of course work including 21 semester units of general education requirements. At least 12 semester units must be completed at Solano Community College. The student must maintain a cumulative grade point average of 2.0 (C) in all courses attempted.

## **Major**

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.

## **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.

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This philosophy is intrinsic to the development of the following basic educational abilities and skills:

- To improve the essential communication skills of speaking, writing, reading and listening.
- To understand the heritage and culture of one's own society and the society of others.
- To provide opportunities to gain information which could aid students in making realistic career decisions.
- To provide the opportunity for students to achieve competence in mathematics and analytical thinking appropriate to their needs.
- To provide educational experiences for students to gain understanding and appreciation in the basic areas of knowledge: the social and behavioral sciences, the natural sciences, and the humanities which will provide an opportunity for cultural, intellectual and personal growth.
- To develop insight and knowledge in the area of self-understanding.
- To develop the knowledge and understanding of the rights, responsibilities and privileges involved in becoming a participating citizen in a democratic society.
- To develop an understanding of technological developments and the effects these will have on society today and in the future.

### **Cross-Cultural Studies Requirement**

The general education requirement for an Associate Degree from Solano Community College includes a 3-unit Cross-Cultural Studies course. Courses that satisfy this requirement are listed under "Area E."

Additional courses will be developed and added to the curriculum in the future; however, any Cross-Cultural Studies course, either current or future, may be used by students to satisfy this requirement even if that course first appears in a Catalog subsequent to the beginning of the student's course of study.

### **General Education Structure**

There are three options available for completing the General Education requirements for the Associate

Degree. Requirements for Option A, Option B and Option C are as follows:

#### **Option A**

(Minimum 21 units)

A minimum of 3 units is required from Areas A, B-1, C, D-1, D-3 and E. The remaining required 3 units may be selected from all courses listed under Areas A, B-1, B-2, C, D-3, or E. The area D-2 reading requirement may be met by an exam or an approved reading course.

Courses with the same prefix as the student's major may not be used to fulfill general education requirements. Exceptions: Electronics (Area D-3), English 1 (Area D-1), and Mathematics (Area D-3).

If two courses are selected from the same General Education Area, they must have a different prefix for both to be used in satisfying general education requirements. Exceptions: English and Mathematics (Area D).

The same course can only be used in one area in satisfying general education requirements.

#### **Area A - Natural Sciences**

(Minimum 3 units)

**Physical Science:** ASTR 10, 30, 40; CHEM 1, 2, 3, 4, 5, 10, 11, 160; ENGR 30; GEOL 1, 2, 3, 4, 5; METER 10; PHYSC 12; PHYS 2, 4, 6, 7, 8, 10.

**Biological Sciences:** BIOSC 1, 2, 5, 6, 10, 12, 12L, 14, 15, 16, 18, 19.

Other courses that may be used in satisfying this requirement: ANTH 1; NUTRI 10; GEOG 1; OHORT 50.

#### **Area B - Social and Behavioral Studies**

(Minimum 3 units)

1. AMST 1, 2; HIST 17, 17H, 18, 18H, 28, 29, 37; IR 1; POLSC 1, 1H, 5; SOCIO 2.

**The following courses do not fulfill the Area B requirement but may be used to fulfill the minimum 21-unit general education requirement:**

2. ANTH 2, 7; COUN 50, 55, 83; CRIMJ 1; ECON 1, 2; GEOG 2, 4; HIST 10, 25, 30, 31, 32; HU DV 38, 39, 40, 50, 53, 58, 70; JOURN 11; POLSC 2, 3, 6, 16, 19; PSYCH 1, 1H, 2, 4, 5, 10, 20, 24, 30; SOCSC 22, 23, 25, 26, 27, 28; SOCIO 1, 23.

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**Area C -  
Humanities**  
(Minimum 3 units)

AM STUDIES 1, 2; ART 1, 2, 3, 10, 11, 12; CINMA 10, 11; ENGL 2, 2H, 12, 13, 14, 16, 18, 21, 23, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 44, 58; FRLNG 1-4, 11, 31-34; HIST 2, 2H, 3, 3H, 4, 4H, 5, 5H; HUMN 1, 2, 3; MUSIC 5, 7, 8, 9, 10, 11, 13, 14, 15, 17, 20, 21, 24, 25, 26; PHLOS 3, 4, 5, 31, 32; PHOTO 35; SPAN 1S, 2S, 25, SPEECH 15; THEA 6, 10, 11, 13; TV 50.

**Area D -  
Language and Rationality**  
(Minimum 6 units)

All three sections (D1, 2, & 3) must be satisfied including one course selected from 1 and 3 below:

1. Writing: ENGL 1 OR \*ENGL 51 (English requirement).

\* English 51 may be used in some vocational programs. See the "Programs" section of this catalog.

2. Reading: This requirement may be satisfied by any of the options listed below:

a) Achieve a college level score of 95 or better on the reading comprehension section of the assessment test.

**OR**

b) Achieve a grade of "C" or better in a college-level reading class: ENGL 62, or a special program of study in the Reading Improvement Lab developed for students scoring between 87-94 on the reading comprehension section of the assessment test.

**OR**

c) Present proof of one of the following:  
1) An Associate degree or higher from an accredited institution.  
2) A grade of "C" or better in a college-level reading course from another community college.  
3) College-level reading test scores from another college, or a score of 500 or better on the verbal section of the SAT, or a score of 23 or better on the English section of the ACT.

3. Communication and Analytical Thinking (mathematics requirement). This requirement may be satisfied by any of the options listed below:

a) Three units of any course offered by the Mathematics Department except MATH 304, 310, 320.

**OR**

b) ECTRN 132 and 133, or 134 and 135, or 140, or 141 when required by a two year electronics major; or #IT 151.

#IT 151 may be used in some vocational programs. See the "Programs" section of this catalog.

**OR**

c) A qualifying score on a designated achievement test AND a minimum of 3 units from the courses listed below.

CIS 1, 20, 22, 23, 25, 115

ENGL 4, 4H, 62

MATH 2, 4, 11, 12, 15, 20, 21, 22, 23, 30, 31, 40, 51, 52, 103, 104

PHLOS 1

SPEECH 1, 1H, 2, 6, 10, 60

**Area E -  
Cross-Cultural Studies**  
(Minimum 3 units)

ART 12, CINMA 11, COUN 55, ENGL 12, ENGL 36, HIST 37, HU DV 53, HUMN 3, MUSIC 13, POLSC 5, SOCS 22, THEA 13.

**Local District Requirement  
Health/Physical Education**

Two Physical Education activity courses (P.E. 1.1 through P.E. 9.30) or two Intercollegiate Athletic sports or any combination thereof that equates to two exposures.

**OR**

One Health Education course (H ED 2, or 3) and one Physical Education activity course (P.E. 1.1 through P.E. 9.30) or one Intercollegiate Athletic sport.

**Exemption:** Students with a certified medical excuse.

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## Option B

To satisfy the general education requirements for the Associate Degree, completion of IGETC requirements may be used in lieu of the Solano College requirements listed in Option A.

By completing a total of 60 units including IGETC, a student will qualify for a Liberal Arts degree. Students may qualify for additional degrees if they have completed major requirements listed elsewhere in this Catalog.

### Cross Cultural Requirement

At least one of the following cross-cultural courses must be completed in order to use this option to fulfill the Solano College general education requirement:

ART 12, CINMA 11, COUN 55, ENGL 12, ENGL 36, HIST 37, HUDV 53, HUMN 3, MUSIC 13, POLSC 5, SOCS 22, THEA 13.

The IGETC requirements and the Solano College courses which satisfy the requirements.

**Solano College 2005-2006 IGETC Courses** - All courses must be completed with a "C" or better.

### Area 1 - English Communications

CSU—3 courses required, one from each group below.

UC—2 courses required, one each from Group A and B.

**Group A: English Composition** (1 course, 3 semester or 4-5 quarter units): ENGL 1

**Group B: Critical Thinking** (1 course, 3 semester or 4-5 quarter units): ENGL 2\*, 2H\*, 4\*, 4H\*; PHLOS 5

**Group C: Oral Communications (CSU requirement only)** (1 course, 3 semester or 4-5 quarter units): SPEECH 1\*, 1H\*, 2, 6

### Area 2 - Mathematical Concepts and Quantitative Reasoning

(1 course, 3 semester or 4-5 quarter units)

MATH 2\*, 4\*, 11, 12, 15, 20\*, 21\*, 22\*, 23, 30\*, 31\*, 40.

### Area 3 - Arts and Humanities

(At least 3 courses, with at least one from the Arts and one from the Humanities; 9 semester or 12-15 quarter units.)

#### Arts

ART 1, 2, 10, 11, 12; CINMA 10, 11; MUSIC 5\*, 7, 8, 13; PHOTO 35; THEA 6, 10, 11, 13.

#### Humanities

AMST 1, 2; ENGL 12, 13, 14, 16, 18, 21, 23, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 44; FRNCH 2, 3, 4, 33\*, 34\*; GERMN 2, 3, 4, 33\*, 34\*; HIST 2\*, 2H\*, 3\*, 3H\*, 4\*, 4H\*, 5\*, 5H\*, 10, 17\*, 17H\*, 18, 25, 28, 29, 30, 31, 32, 37; HUMN 1, 2, 3; PHLOS 3, 4, 31, 32; SPAN 2\*, 3, 4, 25, 33\*, 34\*.

### Area 4 - Social and Behavioral Sciences

(At least 3 courses from at least 2 disciplines or an interdisciplinary sequence; 9 semester or 12-15 quarter units.)

#### 4A Anthropology and Archaeology

ANTH 2, 7

#### 4B Economics

ECON 1, 2

#### 4C Ethnic Studies

POLSC 5; SOCS 22, 23, 25, 26

#### 4D Gender Studies

POLSC 19

#### 4E Geography

GEOG 2, 4

#### 4G Interdisciplinary, Social & Behavioral Science

HU DV 38, 39; JOURN 11; SOCS 25, 26, 27, 28

#### 4H Political Science, Gov. & Legal Institutions

POLSC 1\*, 1H\*, 2, 3, 5, 6, 16, 19

#### 4I Psychology

Psych 1\*, 1H\*, 2, 4, 5, 10, 20, 24, 30 (Socio 30), 34; Socio 30 (Psych 30)

#### 4J Sociology & Criminology

PSYCH 30 (SOCIO 30); SOCIO 1, 2, 23, 30 (PSYCH 30), 40

### Area 5 - Physical and Biological Sciences

(At least 2 courses, one Physical Science course and one Biological Science course; at least one must include a laboratory (indicated by "L" in parentheses); 7-9 semester or 9-12 quarter units.)

#### Physical Science

ASTR 10; CHEM 1(L), 2(L), 3(L)\*, 4(L)\*, 5(L), 10(L)\*, 11(L)\*; GEOG 1; GEOL 1, 2(L), 3, 4(L), 5; METER 10; PHYS 2(L)\*, 4(L)\*; 6(L)\*, 7(L)\*, 8(L)\*, 10\*; PHYSC 12(L)\*.

#### Biological Sciences

ANTH 1; BIOSC 1(L), 2(L)\*, 5(L)\*, 6(L)\*, 10(L)\*, 12, 12(L)\*, 14, 15(L)\*, 16\*, 18, 19(L).

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**Language Other Than English (UC Requirement Only)**  
Proficiency equivalent to two years of high school study in the same language. Solano College courses that fulfill this requirement are:  
ENGL 46; FRNCH 1, 31\* & 32\*; GERMN 1, 31\* & 32\*; ITAL 31\* & 32\*; LATIN 2\*; SPAN 1, 31\* & 32\*.

\*Indicates that transfer credit may be limited by either UC or CSU or both.

### 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 Solano College 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.

By completing a total of 60 units including the 39-unit CSU GE Breadth pattern, a student will qualify for a Liberal Arts degree. Students may qualify for additional degrees if they have completed major requirements listed elsewhere in this Catalog.

### Cross Cultural Requirement

At least one of the following cross-cultural courses must be completed in order to use this option to fulfill the Solano College general education requirement:

ART 12, CINMA 11, COUN 55, ENGL 12, ENGL 36, HIST 37, HUDV 53, HUMN 3, MUSIC 13, POLSC 5, SOCS 22, THEA 13.

The CSU GE Breadth requirements and the Solano College courses which satisfy the requirements are as follows:

### 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, to

include consideration of common fallacies in reasoning.

- B. A minimum of 12 semester units to include inquiry into the physical universe and its life forms, with some immediate participation in laboratory activity, and in math concepts and quantitative reasoning and their applications.
- C. A minimum of 12 semester units from the arts, literature, philosophy, and foreign languages.
- D. A minimum of 12 semester units dealing with human social, political, and economic institutions and behavior and their historical background.
- E. A minimum of three semester units in study designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities.

Thirty-nine units of general education requirements that are completed at Solano 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.

### Solano Community College 2005-2006 CSU General Education Breadth Requirements

#### Area A - Communication in the English Language (Minimum of 9 units)

One course required from each of A1, A2, and A3.

#### A-1 Oral Communication SPEECH 1, 1H

#### A-2 Written Communication ENGL 1

#### A-3 Critical Thinking PHLOS 1, 5; ENGL 2, 2H, 4, 4H; SPEECH 6

#### Area B - Physical Universe and Life Forms (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 10; CHEM 1\*, 2\*, 3\*, 4\*, 5\*, 10\*, 11\*; ENGR 30; GEOG 1; GEOL 2\*, 4\*, 5; METER 10; PHYS 2\*, 4\*, 6\*, 7\*, 8\*, 10; PHYSC 12\*.

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### **B-2 Life Science**

ANTH 1; BIOSC 1\*, 2\*, 5\*, 6\*, 10\*, 12, 14\*, 15\*, 16, 19\*.

### **B-3 Lab Course**

BIOSC 12L; GEOL 1, 3; any course in groups B-1 or B-2 with an asterisk.

### **B-4 Mathematics**

MATH 2, 4, 11, 12, 15, 20, 21, 22, 23, 30, 31, 40, 51.

### **Area C -**

#### **The Arts, Literature, Philosophy and Foreign Languages**

(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 1, 2, 10, 11, 12; CINMA 10, 11; MUSIC 5, 7, 8, 13; PHOTO 35; THEA 1, 2, 5, 6, 10, 11, 13.

#### **C-2 Humanities**

AMST +1#, +2#; ENGL 6, 7, 12, 13, 14, 16, 18, 21, 23, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 44, 46, 47, 58; FRLNG 1, 2, 3, 4, 11, 31, 32, 33, 34; HUMN 1, 2, 3; PHLOS 3, 4, 31, 32; SPAN 1S, 2S, 25.

### **Area D -**

#### **Social, Political and Economic Institutions**

(Minimum of 12 units, 9 at SCC)

Select courses from at least two different course prefixes.

#### **D-1 Anthropology and Archaeology**

ANTH 2, 7.

#### **D-2 Economics**

ECON 1, 2.

#### **D-3 Ethnic Studies**

COUN 55; HIST 25, 28#, 29#, 31; POLSC 5#; PSYCH 24; SOCS 22, 23, 25, 26, 27; SOCIO 23.

#### **D-4 Gender Studies**

HIST 37#; POLSC 19; PSYCH 10.

#### **D-5 Geography**

GEOG 2, 4.

#### **D-6 History**

HIST 2, 2H, 3, 3H, 4, 4H, 5, 5H, 10, 17#, 17H# 18#, 28#, 29#, 30, 31, 32, 37#.

#### **D-7 Interdisciplinary Social or Behavioral Science**

AMST +1#, +2#; JOURN 11; PSYCH 30 (SOCIO 30); SOCS 28; SOCIO 30 (PSYCH 30); TV 50.

### **D-8 Political Science, Government & Legal Institutions**

CRIMJ 1; POLSC 1#, 1H#, 2, 3, 5#, 6, 16, 19.

### **D-9 Psychology**

PSYCH 1, 1H, 2, 4, 5, 10, 24.

### **D-0 Sociology and Criminology**

SOCIO 1, 2, 23, 40.

### **Area E -**

#### **Lifelong Understanding and Self-Development**

(Minimum of 3 units)

BIOSC 18; BUS 58 (COUN 58, HU DV 58); COUN 58 (BUS 58, HU DV 58), 83; H ED2; HU DV 40, 50, 58 (BUS 58, COUN 58), 70; NUTRI 10; PSYCH 20, 34.

**No more than 30 semester units may be certified from Areas B, C, and D combined.**

A student may take a maximum of 39 of the 48 units at Solano Community College toward meeting the general education requirement. The remaining 9 units must be completed in upper division at the California State University.

\* Lab Course

+ May be used in only one area

# Meets American Institutions requirement

### **American History and Institutions Requirement**

Every student must demonstrate a knowledge of American history and institutions to graduate from a California State University. The requirement can be completed at Solano College by taking POLSC 1, 1H or 5 and either HIST 17 or 17H or 18 or 28 or 29 or 37, or AMST 1 or 2.

### **Transfer of Credit From Other Colleges**

Only those courses designated as lower division courses by accredited colleges may be accepted for transfer to a degree or certificate program.

# *Transfer to Four-Year Colleges & Universities*

Solano 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 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 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.

## **Concurrent Enrollment**

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

## **Aerospace Studies (Air Force ROTC)**

Air Force Reserve Officer Training Corps (AFROTC) is available to Solano Community College students through a program offered at California State University, Sacramento (CSUS). The CSUS Department of Aerospace Studies offers two-, three-, or four-year programs leading to a commission in the United States Air Force. All coursework (12 or 16 semester units) is completed on the CSUS campus. Drills and courses are normally offered on Tuesdays, Wednesdays and Thursdays. Field Training is conducted during part of the summer at an active Air Force base, normally between the student's sophomore and junior years.

Upon completion of all the program requirements for a Bachelor's degree, cadets are commissioned second lieutenants in the Air Force and serve a minimum of four years on active duty. Graduates who are qualified and are selected may enter pilot or navigator training after graduation, or serve in a specialty consistent with their academic major, individual goals, and existing Air Force

needs. Graduates may request a delay of entry on active duty to continue their education or may apply for Air Force sponsored graduate study to begin immediately upon entry on active duty. Due to firm scheduling requirements for the AFROTC program, students are encouraged to work closely with their academic advisors in planning this academic program.

AFROTC offers 3-year and 2-year scholarships to qualified students. Applications are accepted in any academic discipline; however, particular emphasis is usually given to applicants in the fields of engineering computer science, mathematics, and physics.

Application to the AFROTC program should normally be no later than during the first semester of a student's sophomore year. Juniors, seniors and graduate students may also apply under certain conditions. Contact the Unit Admissions Officer in the Aerospace Studies Department at CSUS, telephone (916) 278-7315, for information on the program or the entry process.

## **Intersegmental General Education Transfer Curriculum (IGETC)**

The IGETC is a series of courses that community college students can use to satisfy lower division general education requirements at any CSU or UC campus. The IGETC will provide an option to the California State University General Education Requirements.

IGETC will permit a student to transfer from a community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus G.E. requirements. (There are some exceptions to this statement. See a Counselor for more information.)

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. IGETC requirements must be completed prior to transfer.

**Solano College 2005-2006 IGETC Courses** - All courses must be completed with a "C" or better.

### **Area 1 -**

#### **English Communications**

CSU—3 courses required, one from each group below.

UC—2 courses required, one each from Group A and B.

**Group A: English Composition** (1 course, 3 semester or 4-5 quarter units): ENGL 1

**Group B: Critical Thinking** (1 course, 3 semester or 4-5 quarter units): ENGL 2\*, 2H\*, 4\*, 4H\*; PHLOS 5

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**Group C: Oral Communications (CSU requirement only)**  
(1 course, 3 semester or 4-5 quarter units): SPEECH 1\*, 1H\*, 2, 6

**Area 2 -**

**Mathematical Concepts and Quantitative Reasoning**

(1 course, 3 semester or 4-5 quarter units)

MATH 2\*, 4\*, 11, 12, 15, 20\*, 21\*, 22\*, 23, 30\*, 31\*, 40.

**Area 3 -**

**Arts and Humanities**

(At least 3 courses, with at least one from the Arts and one from the Humanities; 9 semester or 12-15 quarter units.)

**Arts**

ART 1, 2, 10, 11, 12; CINMA 10, 11; MUSIC 5\*, 7, 8, 13; PHOTO 35; THEA 6, 10, 11, 13.

**Humanities**

AMST 1, 2; ENGL 12, 13, 14, 16, 18, 21, 23, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 44; FRNCH 2, 3, 4, 33\*, 34\*; GERMN 2, 3, 4, 33\*, 34\*; HIST 2\*, 2H\*, 3\*, 3H\*, 4\*, 4H\*, 5\*, 5H\*, 10, 17\*, 17H\*, 18, 25, 28, 29, 30, 31, 32, 37; HUMN 1, 2, 3; PHLOS 3, 4, 31, 32; SPAN 2\*, 3, 4, 25, 33\*, 34\*.

**Area 4 -**

**Social and Behavioral Sciences**

(At least 3 courses from at least 2 disciplines or an interdisciplinary sequence; 9 semester or 12-15 quarter units.)

**4A Anthropology and Archaeology**

ANTH 2, 7

**4B Economics**

ECON 1, 2

**4C Ethnic Studies**

POLSC 5; SOCSC 22, 23, 25, 26

**4D Gender Studies**

POLSC 19

**4E Geography**

GEOG 2, 4

**4G Interdisciplinary, Social & Behavioral Science**

HU DV 38, 39; JOURN 11; SOCSC 25, 26, 27, 28

**4H Political Science, Gov. & Legal Institutions**

POLSC 1\*, 1H\*, 2, 3, 5, 6, 16, 19

**4I Psychology**

Psych 1\*, 1H\*, 2, 4, 5, 10, 20, 24, 30 (Socio 30), 34; Socio 30 (Psych 30)

**4J Sociology & Criminology**

PSYCH 30 (SOCIO 30); SOCIO 1, 2, 23, 30 (PSYCH 30), 40

**Area 5 -**

**Physical and Biological Sciences**

(At least 2 courses, one Physical Science course and one Biological

Science course; at least one must include a laboratory (indicated by "L" in parentheses); 7-9 semester or 9-12 quarter units.)

**Physical Science**

ASTR 10; CHEM 1(L), 2(L), 3(L)\*, 4(L)\*, 5(L), 10(L)\*, 11(L)\*; GEOG 1; GEOL 1, 2(L), 3, 4(L), 5; METER 10; PHYS 2(L)\*, 4(L)\*; 6(L)\*, 7(L)\*, 8(L)\*, 10\*; PHYSC 12(L)\*.

**Biological Sciences**

ANTH 1; BIOSC 1(L), 2(L)\*, 5(L)\*, 6(L)\*, 10(L)\*, 12, 12 (L)\*, 14, 15(L)\*, 16\*, 18, 19(L).

**Language Other Than English (UC Requirement Only)**

Proficiency equivalent to two years of high school study in the same language. Solano College courses that fulfill this requirement are:

ENGL 46; FRNCH 1, 31\* & 32\*; GERMN 1, 31\* & 32\*; ITAL 31\* & 32\*; LATIN 2\*; SPAN 1, 31\* & 32\*.

**CSU Graduation Requirement in U.S. History, Constitution and American Ideals** (Not part of IGETC; may be completed prior to transfer.) 6 units, one course from Group 1 and one course from Group 2 below:

**Group 1** - POLSC 1, 5.

**Group 2** - AMST 1, 2; HIST 17, 18, 28, 29, 37.

NOTE: Courses used to meet this requirement may not be used to satisfy requirements for IGETC.

\*Indicates that transfer credit may be limited by either UC or CSU or both.

**California Articulation Number (CAN)**

The California Articulation Number (CAN) System identifies some of the transferable, lower division, introductory (preparatory) courses commonly taught on California college campuses.

The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on every other participating campus. Each campus retains its own numbering system, but adds the CAN designation parenthetically in its publications. It is expected that most campuses throughout the state will qualify courses to use the California Articulation Numbers.

The following list of CAN courses was effective as of the publication of this catalog; however, changes in CAN course listings occur periodically. To obtain the current listings of Solano's CAN courses, visit the CAN web site at [www.can.csus.edu](http://www.can.csus.edu). The CAN web site also has the CAN information for all other California community colleges, California State Universities, and some independent colleges. Students can also check with counseling offices, transfer centers, academic advising offices, or articulation officers for current listings of CAN courses and campuses participating in the CAN System.

## Solano College CAN Courses

<u>SCC Course</u>	<u>CAN Number</u>		
ACCT 1	CAN BUS 2	GEOL 3	CAN GEOL 8
ACCT 2	CAN BUS 4	GEOL 3+4	CAN GEOL 4
ACCT 1+2	CAN BUS SEQ A	GERMN 1	CAN GERM 2
ANTH 1	CAN ANTH 2	GERMN 2	CAN GERM 4
ANTH 2	CAN ANTH 4	GERMN 1+2	CAN GERM SEQ A
ANTH 7	CAN ANTH 6	GERMN 3	CAN GERM 8
ART 1	CAN ART 2	GERMN 4	CAN GERM 10
ART 2	CAN ART 4	GERMN 3+4	CAN GERM SEQ B
ART 1+2	CAN ART SEQ A	HIST 2	CAN HIST 14
ART 4	CAN ART 24	HIST 3	CAN HIST 16
ART 6	CAN ART 14	HIST 4	CAN HIST 2
ART 7	CAN ART 22	HIST 5	CAN HIST 4
ART 15	CAN ART 8	HIST 4+5	CAN HIST SEQ A
ART 17	CAN ART 10	HIST 17	CAN HIST 8
ART 23	CAN ART 6	HIST 18	CAN HIST 10
ART 31	CAN ART 12	HIST 17+18	CAN HIST SEQ B
ART 39	CAN ART 20	HU DV 38+39	CAN FCS 14
BIOSC 2	CAN BIOL 2	ITAL 31+32	CAN ITAL 2
BIOSC 1+2	CAN BIOL SEQ A	ITAL 33+34	CAN ITAL 4
BIOSC 5	CAN BIOL 12	JOURN 1	CAN JOUR 2
BIOSC 6	CAN BIOL 10	JOURN 11	CAN JOUR 4
BIOSC 5+6	CAN BIOL SEQ B	MATH 2	CAN MATH 10
BIOSC 14	CAN BIOL 14	MATH 4	CAN MATH 16
BUS 18	CAN BUS 12	MATH 11	CAN STAT 2
CHEM 1	CAN CHEM 2	MATH 12	CAN MATH 2
CHEM 2	CAN CHEM 4	MATH 15	CAN MATH 12
CHEM 1+2	CAN CHEM SEQ A	MATH 20	CAN MATH 18
CHEM 5	CAN CHEM 12	MATH 21	CAN MATH 20
CHEM 10	CAN CHEM 6	MATH 20+21	CAN MATH SEQ B
CHEM 11	CAN CHEM 8	MATH 22	CAN MATH 22
CHEM 10+11	CAN CHEM SEQ B	MATH 20+21+22	CAN MATH SEQ C
CIS 1	CAN BUS 6	MATH 23	CAN MATH 24
CIS 20	CAN CSCI 10	MATH 30	CAN MATH 30
CIS 25	CAN CSCI 4	MATH 31	CAN MATH 32
CRIMJ 1	CAN AJ 2	MATH 30+31	CAN MATH SEQ D
CRIMJ 2	CAN AJ 4	MATH 40	CAN MATH 26
CRIMJ 51	CAN AJ 8	MATH 51	CAN MATH 8
CRIMJ 53	CAN AJ 6	MUSIC 8	CAN MUS 8
ECON 1	CAN ECON 2	NUTRI 10	CAN FCS 2
ECON 2	CAN ECON 4	PE 20.1	CAN KINE/PE 2
ENGL 1	CAN ENGL 2	PE 20.3	CAN KINE/PE 8
ENGL 2	CAN ENGL 4	PHLOS 3	CAN PHIL 2
ENGL 1+2	CAN ENGL SEQ A	PHLOS 4	CAN PHIL 4
ENGL 6	CAN ENGL 6	PHOTO 30	CAN ART 18
ENGL 21	CAN ENGL 20	PHYS 2	CAN PHYS 2
ENGL 23	CAN ENGL 18	PHYS 4	CAN PHYS 4
ENGL 25	CAN ENGL 22	PHYS 2+4	CAN PHYS SEQ A
ENGL 30	CAN ENGL 14	PHYS 6	CAN PHYS 8
ENGL 31	CAN ENGL 16	PHYS 7	CAN PHYS 12
ENGL 30+31	CAN ENGL SEQ C	POLSC 1	CAN GOVT 2
ENGL 40	CAN ENGL 8	PSYCH 2	CAN PSY 2
ENGL 41	CAN ENGL 10	SOCIO 1	CAN SOC 2
ENGL 40+41	CAN ENGL SEQ B	SOCIO 2	CAN SOC 4
ENGR 30	CAN ENGR 8	SPAN 1	CAN SPAN 2
ENGR 45	CAN ENGR 4	SPAN 2	CAN SPAN 4
FASHD 31	CAN FCS 6	SPAN 1+2	CAN SPAN SEQ A
FRNCH 1	CAN FREN 2	SPAN 3	CAN SPAN 8
FRNCH 2	CAN FREN 4	SPAN 4	CAN SPAN 10
FRNCH 1+2	CAN FREN SEQ A	SPAN 3+4	CAN SPAN SEQ B
FRNCH 3	CAN FREN 8	SPEECH 1	CAN SPCH 4
FRNCH 4	CAN FREN 10	SPEECH 6	CAN SPCH 6
FRNCH 3+4	CAN FREN SEQ B	SPEECH 10	CAN SPCH 8
GEOG 1	CAN GEOG 2	THEA 1	CAN DRAM 8
GEOG 2	CAN GEOG 4	THEA 3	CAN DRAM 12
GEOL 1	CAN GEOL 6	THEA 6	CAN DRAM 18
GEOL 1+2	CAN GEOL 2	THEA 8	CAN DRAM 14
		THEA 20	CAN DRAM 10

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## California State Universities (CSU) Undergraduate Transfer Admission Requirement

### Lower Division Transfer Admission Requirements\*—

Students are eligible for admission if they:

- Have completed 55 or fewer transferable semester college units (83 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.

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) required in college 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 the student's 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](http://www.csumentor.edu).

### Identification of Baccalaureate Level Courses-California State Universities

1. Courses numbered 1 through 99 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 about four-year vocational degree programs, 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, to include consideration of common fallacies in reasoning.
- B. A minimum of 12 semester units to include inquiry into the physical universe and its life forms, with some immediate participation in laboratory activity, and in math concepts and quantitative reasoning and their applications.
- C. A minimum of 12 semester units from the arts, literature, philosophy, and foreign languages.
- D. A minimum of 12 semester units dealing with human social, political, and economic institutions and behavior and their historical background.
- E. A minimum of three semester units in study designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities.

Thirty-nine units of general education requirements that are completed at Solano 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.

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**Solano Community College 2005-2006 CSU General Education Breadth Requirements**

**Area A -  
Communication in the English Language**

(Minimum of 9 units)

One course required from each of A1, A2, and A3.

**A-1 Oral Communication**

SPEECH 1, 1H

**A-2 Written Communication**

ENGL 1

**A-3 Critical Thinking**

PHLOS 1, 5; ENGL 2, 2H, 4, 4H; SPEECH 6

**Area B -  
Physical Universe and Life Forms**

(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 10; CHEM 1\*, 2\*, 3\*, 4\*, 5\*, 10\*, 11\*; ENGR 30; GEOG 1; GEOL 2\*, 4\*, 5; METER 10; PHYS 2\*, 4\*, 6\*, 7\*, 8\*, 10; PHYSC 12\*.

**B-2 Life Science**

ANTH 1; BIOSC 1\*, 2\*, 5\*, 6\*, 10\*, 12, 14\*, 15\*, 16, 19\*.

**B-3 Lab Course**

BIOSC 12L; GEOL 1, 3; any course in groups B-1 or B-2 with an asterisk.

**B-4 Mathematics**

MATH 2, 4, 11, 12, 15, 20, 21, 22, 23, 30, 31, 40, 51.

**Area C -  
The Arts, Literature, Philosophy and Foreign Languages**

(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 1, 2, 10, 11, 12; CINMA 10, 11; MUSIC 5, 7, 8, 13; PHOTO 35; THEA 1, 2, 5, 6, 10, 11, 13.

**C-2 Humanities**

AMST +1#, +2#; ENGL 6, 7, 12, 13, 14, 16, 18, 21, 23, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 44, 46, 47, 58; FRLNG 1, 2, 3, 4, 11, 31, 32, 33, 34; HUMN 1, 2, 3; PHLOS 3, 4, 31, 32; SPAN 1S, 2S, 25.

**Area D -  
Social, Political and Economic Institutions**

(Minimum of 12 units, 9 at SCC)

Select courses from at least two different course prefixes.

**D-1 Anthropology and Archaeology**

ANTH 2, 7.

**D-2 Economics**

ECON 1, 2.

**D-3 Ethnic Studies**

COUN 55; HIST 25, 28#, 29#, 31; POLSC 5#; PSYCH 24; SOCS 22, 23, 25, 26, 27; SOCIO 23.

**D-4 Gender Studies**

HIST 37#; POLSC 19; PSYCH 10.

**D-5 Geography**

GEOG 2, 4.

**D-6 History**

HIST 2, 2H, 3, 3H, 4, 4H, 5, 5H, 10, 17#, 17H# 18#, 28#, 29#, 30, 31, 32, 37#.

**D-7 Interdisciplinary Social or Behavioral Science**

AMST +1#, +2#; JOURN 11; PSYCH 30 (SOCIO 30); SOCS 28; SOCIO 30 (PSYCH 30); TV 50.

**D-8 Political Science, Government & Legal Institutions**

CRIMJ 1; POLSC 1#, 1H#, 2, 3, 5#, 6, 16, 19.

**D-9 Psychology**

PSYCH 1, 1H, 2, 4, 5, 10, 24.

**D-0 Sociology and Criminology**

SOCIO 1, 2, 23, 40.

**Area E -  
Lifelong Understanding and Self-Development**

(Minimum of 3 units)

BIOSC 18; BUS 58 (COUN 58, HU DV 58); COUN 58 (BUS 58, HU DV 58), 83; H ED2; HU DV 40, 50, 58 (BUS 58, COUN 58), 70; NUTRI 10; PSYCH 20, 34.

**No more than 30 semester units may be certified from Areas B, C, and D combined.**

A student may take a maximum of 39 of the 48 units at Solano Community College toward meeting the general education requirement. The remaining 9 units must be completed in upper division at the California State University.

\* Lab Course

+ May be used in only one area

# Meets American Institutions requirement

**American History and Institutions Requirement**

Every student must demonstrate a knowledge of American history and institutions to graduate from a California State University. The requirement can be completed at Solano College by taking POLSC 1, 1H or 5 and either HIST 17 or 17H or 18 or 28 or 29 or 37, or AMST 1 or 2.

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## University of California

### Planning to Transfer

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 these requirements.

Knowing what the requirements are and planning their community college program around them will maximize students' chances for admission to their first-choice campus and program. 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 College's UC Transferable Course Agreement and the articulation agreements with UC campuses are available online at [www.assist.org](http://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 may satisfy Option 3b of the transfer admission requirements.)

### Nonresidents

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

### Courses Acceptable at University of California

Solano College courses number 1 through 49 transfer to the University of California. A limited number of units are allowed for certain transfer courses in specific areas. Courses which have an asterisk (\*) following the course name and number in the Course Descriptions section of this Catalog have been submitted to the UC system for approval as transferable courses. The transferability of these courses is pending UC approval. Not all Special Topics courses are transferable. Please contact a counselor for specific information.

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### **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).

Solano College counselors, the Career Center, and the Transfer Center have lists of courses which are acceptable for credit at all UC campuses, as well as those which meet the breadth requirements for specific UC colleges and schools. Students should study the list of undergraduate colleges, schools, and majors available at each campus to determine which campuses will best satisfy their educational needs. Contact a counselor for specific information.

### **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 is competitive and should endeavor to complete as much of the lower division preparation as possible for their major before transferring.

Contact a counselor and visit the ASSIST web site at [www.assist.org](http://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 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

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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

Solano College offers a wide variety of programs in technical fields in which a student can be certified in a year or less. See the listing under each major for specific information, or see [www.solano.edu](http://www.solano.edu).

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  
Fashion Design  
Fire Technology  
Home Economics  
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 Comp. & 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)  
Floral Worker (see Ornamental Horticulture major)  
General Office Assistant (see Office Technology major)  
Hazmat Worker (see Fire Technology major)  
Home-Based Computer Processor (see Comp. & Information Science major)  
Home Technology Integrator (see Electronics major)  
Landscape Worker (see Ornamental Horticulture major)  
Legal Office Assistant (see Office Technology major)  
Manufacturing Technology (see Industrial Education major)  
Medical Office Assistant (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)  
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)

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.

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# 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. For most certificate programs, students who complete the series of courses with a cumulative grade point average of 2.0 or higher are eligible to apply for the Certificate of Achievement. Some programs, however, require that students complete each course within the program with a grade point of 2.0 (C) or better. 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 fast-track 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 insure 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:

<b>Courses</b>	<b>Listed Under</b>	<b>Courses</b>	<b>Listed Under</b>
Air Conditioning & Refrig (ACR)	Industrial Education	Physical Science (PHYSC)	Science, General
American Studies (AMST)	Liberal Arts	Portuguese (PORT)	Foreign Languages
Anthropology (ANTH)	Science, General	Sociology (SOCIO)	Social Sciences
Astronomy (ASTRO)	Science, General	Spanish (SPAN)	Foreign Languages
Athletics (ATHL)	Physical Education/Athletics	Speech (SPEECH)	Communications Studies
Cinematography (CINMA)	Film & Television	Tagalog (TAG)	Foreign Languages
Education (EDUC)	Liberal Arts	Television (TV)	Film & Television
Emergency Medical Technician (EMT)	Health Occupations	Tutoring (TUTOR)	Counseling
English as a Second Language (ESL)	English		
French (FRNCH)	Foreign Languages	<b>Other Categories</b>	<b>Listed Under</b>
Geography (GEOG)	Science, General	Computer Servicing Tech.	Electronics major
Geology (GEOL)	Science, General	Graphic Design & Illustration major	Art major
German (GERMN)	Foreign Languages	Reading courses	English major
Health Education (H ED)	Physical Education/Athletics	Sports Med./Fitness Sci major	P.E./Athletics
Human Development (HU DV)	Home Economics		
Humanities (HUMN)	Liberal Arts		
Industrial Management (INDMG)	Industrial Education		
Industrial Technology (IT)	Industrial Education		
Italian (ITAL)	Foreign Languages		
Japanese (JAPAN)	Foreign Languages		
Latin (LATIN)	Foreign Languages		
Learning Resources (LR)	Liberal Arts		
Learning Skills (LS)	Counseling		
Maintenance Technician (MT)	Industrial Education		
Meteorology (METER)	Science, General		
Nursing (NURSE)	Health Occupations		
Nutrition (NUTRI)	Home Economics		

# Program Degrees and Certificates

	Assoc Degree	Certificate		Assoc Degree	Certificate
<b>#Accounting</b>	•	•	<b>#Interior Design</b>	•	•
<b>*#Aeronautics</b>			<b>International Relations</b>	•	
Airframe Maintenance Technician	•	•	<b>Journalism</b>	•	
Powerplant Maintenance Technician	•	•	<b>Liberal Arts</b>	•	
Airframe & Powerplant Maintenance Technician	•	•	<b>#Life Management</b>	•	•
Avionics Technician	•	•	<b>#Management</b>	•	•
<b>Art</b>			#Small Business Management	•	•
Two Dimensional	•		Retail Management	•	•
Three Dimensional	•		<b>#Marketing</b>	•	•
Art History	•		<b>Mathematics</b>	•	
Graphic Design & Illustration	•		<b>Music</b>		
<b>*#Automotive</b>			Instrumental	•	
Body & Repair Technician	•	•	Theory-Composition	•	
<b>*# Banking &amp; Finance, Bank Operation</b>	•	•	Vocal	•	
<b>Biology</b>	•		<b>Nursing, Registered</b>	•	
<b>Biotechnology Production Technician</b>	•	•	<b>#Office Technology</b>		
<b># Business, General (Transfer)</b>	•	•	Administrative Assistant	•	•
<b>Business-Insurance: Property &amp; Casualty</b>	•	•	Legal Specialist	•	•
<b>Chemistry</b>	•		Medical Office Specialist	•	•
<b>Communication Studies</b>	•		Medical Transcription Specialist	•	•
<b># Computer &amp; Information Science</b>			<b>*#Ornamental Horticulture</b>		
Computer Programming	•	•	Commercial Floral Practices	•	•
Microcomputer Applications	•	•	Horticulture Science	•	•
Web Development and Administration	•	•	Landscape Maintenance	•	•
<b>*# Cosmetology</b>	•	•	Landscape Practices	•	•
<b># Criminal Justice</b>			Nursery Production	•	•
Corrections	•	•	Turf Management	•	•
Law Enforcement	•	•	<b>*#Photography, Professional</b>	•	•
<b>*# Drafting Technician</b>	•	•	<b>Physical Education</b>	•	
<b># Early Childhood Education</b>	•	•	<b>Physics</b>	•	
<b>* Electronic Technology</b>	•	•	<b>Political Science</b>	•	
<b>English</b>	•		<b>Psychology</b>	•	
<b>Ethnic Studies</b>			<b>#Real Estate</b>	•	•
African-American Studies	•		<b>Science, General</b>	•	
Asian-American Studies	•		<b>Social Science</b>	•	
Ethnic Studies Combination	•		<b>Sports Medicine/Fitness Science</b>		
Latino Studies	•		Transfer	•	
Native American Studies	•		Occupational-Aerobics	•	
<b>#Fashion Design</b>	•	•	Occupational-Personal Trainer	•	
<b>#Fashion Merchandising</b>	•	•	<b>Theatre Arts</b>	•	
<b>Film and Television</b>	•		<b>*#Water &amp; Wastewater Technology</b>	•	•
<b>Fine Arts</b>	•		<b>*#Welding</b>		
<b>*# Fire Technology</b>	•	•	Industrial Technician	•	•
Hazardous Substance and Waste Handling Technician		•	Technician	•	•
<b>Foreign Languages, General</b>	•				
<b>Foreign Languages, Individual:</b>					
French	•				
German	•				
Spanish	•				
<b>History</b>	•				
<b>#Home Economics</b>	•	•			
<b>#Human Services</b>	•	•			
<b>Industrial Education</b>					
*#Industrial Management, Safety	•	•			
*#Maintenance Technician	•	•			

\* Students in these programs may satisfy the English portion of the general education requirement for the Associate Degree by taking either ENGL 1 or ENGL 51.

# Students in these programs may satisfy the mathematics portion of the general education requirement for the Associate Degree by taking either MATH 102 or IT 151.

# Announcement of Courses & Course Numbers

## Courses

**Credit Courses:** Courses numbered 1-399 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 Services Courses:** The College also offers a variety of Community Service courses that are designed to meet the needs of community residents and businesses. These courses are fee-based, noncredit courses that do not receive any tax support and no student records are kept by the Office of Admissions and Records. Community Service courses are not listed in this Catalog but in a separate bulletin, *Vistas*, published each semester (fall, spring). Contact the Community Service Office for course schedules and details about registration at (707) 864-7115 and online: [www.solano.edu/communityservices](http://www.solano.edu/communityservices).

## 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 English 370. The recommended **minimum** skill level in mathematics in an Associate-Degree level course (SCC minimum math standard) is eligibility for enrollment in Math 102.

**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

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this completion. This documentation must be presented to a counselor, faculty advisor, or division dean. Or a student may file a "Petition to Verify a Course Pre/Co-requisite" form, available at the Office of Admissions and Records. (Refer to the form for more detailed information on the requirements and procedures for processing this petition.)

**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's 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

Solano College certifies the general or limited transferability of each course to the California State Universities. 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

- 1- 49** Qualify for the AA/AS Degree; transfer to the University of California system and the California State Universities.
- NOTE: Courses with an asterisk (\*) following the course number have been submitted to the University of California system-wide Articulation Office for approval as transferable courses. UC approval of these courses as transferable is pending.
- 50- 99** 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 below English 1 which may be applied to the Associate Degree as an elective. Do not transfer to four-year institutions.
- 500-599** Noncredit courses.
- 600-799** Community Service courses. These courses are noncredit 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.**

## 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 26-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 with a grade of C (2.0) or better in each course, the general education requirements, and electives.

## Required Courses

	Units	
ACCT 1—Prin. of Acctng.—Financial	4	<b>Recommended Electives :</b> OCCED 90, 91
ACCT 2—Prin. of Acctng.—Managerial	4	
ACCT 176—Intermediate Accounting	3	
ACCT 177—Prin. of Cost Accounting	3	
ACCT 183—Prin. of Income Tax	3	
CIS 50—Microcomputer Applications		
OR		
CIS 1—Intro. to Computer Science	3	
CIS 66—Microsoft Word		
OR		
CIS 63—WordPerfect	3	
CIS 73—Microsoft Excel	3	
	26	

## Job-Direct Certificate Requirements

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

### Account Clerk

Required Courses	Units
BUS 100—Work Readiness	1.5
CIS 73 —Microsoft Excel	3
ACCT 180—Introduction to Accounting	3
OT 162—Ten Key	1
	8.5

# Accounting

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## ACCT 1

4 Units

### Principles of Accounting—Financial

*Course Advisories: SCC minimum English and math standards; Working knowledge of Excel helpful.* A study and analysis of the accounting cycle, accruals and deferrals, inventory, receivables, plant assets, accounting systems, error correction, and financial reporting. (CAN BUS 2) (ACCT 1 & 2 = CAN BUS SEQ A). *Four hours lecture.*

## ACCT 2

4 Units

### Principles of Accounting—Managerial

*Prerequisite: ACCT 1 with a grade of “C” or “CR” or better. Course Advisory: Working knowledge of Excel helpful.* 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. (CAN BUS 4) (ACCT 1 & 2 = CAN BUS SEQ A). *Four hours lecture.*

## ACCT 176

3 Units

### Intermediate Accounting

*Prerequisite: ACCT 2 with a grade of “C” or “CR” or better. Course Advisory: Working knowledge of Excel helpful.* Accounting theory as applied to common issues faced by accountants in today’s businesses. Lecture, group-study, and computer-based study emphasize the conceptual framework, the four major financial statements, footnotes, and present-value concepts. The class helps prepare the student for an entry-level position in professional accounting career. *Four hours lecture.*

## ACCT 177

3 Units

### Principles of Cost Accounting

*Prerequisite: ACCT 2 with a grade of “C” or “CR” or better.* A comprehensive study and analysis of manufacturing costs as they apply to planning, controlling, and determining unit costs, inventory valuation, and income. *Three hours lecture.*

## ACCT 180

3 Units

### Introduction to Accounting

*Course Advisories: SCC minimum English and math standards.* A study and analysis of the accounting cycle for a merchandising business and professional enterprises, payroll accounting, accruals and deferrals, accounting systems, error correction, and financial reporting. *Three hours lecture.*

## ACCT 183

3 Units

### Principles of Income Tax

*Course Advisories: SCC minimum English and math standards.* A comprehensive study and analysis of the principles of federal income tax applied to individual, partnership, informational, and corporate tax returns. *Three hours lecture.*

### 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.

## Airframe Maintenance Technician

### Required Courses

	<b>Units</b>	To obtain the combination Airframe & Powerplant Maintenance Technician certificate or degree, complete the three courses listed below:	
AERO 55— Aviation Maintenance Technician General I	10		
AERO 102—Airframe Maintenance I	10		
AERO 103—Aviation Maintenance Technician General II	10		<b>Units</b>
AERO 105—Airframe Maintenance II	10	AERO 106—Powerplant Maintenance	10
AERO 118—FAA Airframe Test Rev. & Qual.	1	AERO 107—Powerplant Maintenance II	10
	41	AERO 119—FAA Powerplant Test Rev. & Qual.	1
			21

**Recommended Electives:**

AERO 110, 111, 112, 113, 150  
OCCED 90, 91

## Powerplant Maintenance Technician

### Required Courses

	<b>Units</b>	To obtain the combination Airframe & Powerplant Maintenance Technician certificate or degree, complete the three courses listed below:	
AERO 55— Aviation Maintenance Technician General I	10		
AERO 103—Aviation Maintenance Technician General II	10		<b>Units</b>
AERO 106—Powerplant Maintenance I	10	AERO 102—Airframe Maintenance I	10
AERO 107—Powerplant Maintenance II	10	AERO 105—Airframe Maintenance II	10
AERO 119—FAA Powerplant Test Rev. and Qual.	1	AERO 118—FAA Airframe Test Rev. & Qual.	1
	41		21

**Recommended Electives :**

AERO 110, 111, 112, 113, 150  
OCCED 90, 91

# Aeronautics

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## 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 communications 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.

### Required Courses

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

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*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 55.*

### AERO 55

10 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.*

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<b>AERO 102</b>	<b>10 Units</b>	<b>AERO 110</b>	<b>7 Units</b>
<b>Airframe Maintenance I</b> <i>Prerequisite: AERO 55 or equivalent. Course Advisory: SCC minimum English standard.</i> 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. <i>Five hours lecture, fifteen hours lab.</i>		<b>Instrument Power Distribution &amp; Flight Control Systems</b> <i>Prerequisites: ECTRN 53 and ECTRN 126.</i> 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. <i>Five hours lecture, six hours lab.</i>	
<b>AERO 103</b>	<b>10 Units</b>	<b>AERO 111</b>	<b>7 Units</b>
<b>Aviation Maintenance Technician General II</b> <i>Prerequisite: AERO 55. Course Advisory: SCC minimum English standard.</i> 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. <i>Five hours lecture, fifteen hours lab.</i>		<b>Aircraft Communication Systems</b> <i>Prerequisites: ECTRN 53 and ECTRN 126.</i> 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. <i>Five hours lecture, six hours lab.</i>	
<b>AERO 105</b>	<b>10 Units</b>	<b>AERO 112</b>	<b>7 Units</b>
<b>Airframe Maintenance II</b> <i>Prerequisite: AERO 55. Course Advisory: SCC minimum English standard.</i> 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. <i>Five hours lecture, fifteen hours lab.</i>		<b>Aircraft Navigation Systems</b> <i>Prerequisites: ECTRN 53 and ECTRN 126.</i> 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. <i>Five hours lecture, six hours lab.</i>	
<b>AERO 106</b>	<b>10 Units</b>		
<b>Powerplant Maintenance I</b> <i>Prerequisite: AERO 55. Course Advisory: SCC minimum English standard.</i> Presents a study of the theory, operation, maintenance and repair of reciprocating engines and accessories. <i>Five hours lecture, fifteen hours lab.</i>			
<b>AERO 107</b>	<b>10 Units</b>		
<b>Powerplant Maintenance II</b> <i>Prerequisite: AERO 55. Course Advisory: SCC minimum English standard.</i> Presents a study of the theory, operation, maintenance and repair of the turbine engine and accessories. <i>Five hours lecture, fifteen hours lab.</i>			

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# Aeronautics

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## AERO 113

7 Units

### Aircraft Radar and Pulse Systems

*Prerequisites: ECTRN 53 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

.5-1.5 Units

### FAA Airframe Test Review and Qualification

*Prerequisite: AERO 55. Course Advisory: SCC minimum math standard.* 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

.5-1.5 Units

### FAA Powerplant Test Review and Qualification

*Prerequisite: AERO 55. Course Advisory: SCC minimum math standard.* 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

1-3 Units

### FAA Special Projects and Course Enhancement

*Prerequisite: Any Solano College Aeronautics course (AERO 55-119); or previous training or experience in aeronautics and permission of instructor based on evaluation of student's previous training or experience. Course Advisories: SCC minimum English and math standards.* Designed to give aeronautic students a chance to make up time lost for FAA certificate and/or to work on special projects required by FAA to bring students in line with new FAA FAR Part 66 requirements. Also allows mechanics to take recurrent training. This is an open entry/open exit course. *One and one half to four and one half hours lecture.*

### Special Topics

These courses, numbered 98, 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.

# Agriculture Business

Career Technical Education Division

## Program Description

The courses in this program focus on providing students with the knowledge and skills sufficient to gain and hold entry-level jobs in the field of Agriculture Business, including sales and services.

## Certificate of Achievement and Associate in Science Degree

Not offered in this discipline.

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<b>AGBUS 50</b> <b>Introduction To Agriculture Business</b> <i>Course Advisories: SCC minimum English and math standards.</i> Introduction and preview of the Agriculture Business industries including trends, business organizations, scope, methods of operation, services, labor needs and career opportunities. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>AGBUS 101</b> <b>Agriculture Mathematics</b> <i>Course Advisories: SCC minimum English and math standards.</i> The application of fundamental mathematical functions as used in agriculture production and related business with special emphasis on machine outputs, plant populations, feed rations, moisture conversions, slope determinations, gear ratios, hydraulic proportions, water volumes, depreciation, taxes and interest. <i>Two hours lecture.</i>	<b>2 Units</b>
<b>AGBUS 53</b> <b>Agriculture Economics</b> <i>Course Advisories: SCC minimum English and math standards.</i> The fundamental economic aspects of Agriculture Business management with emphasis on the economic systems of agriculture, price concepts, economic resources, risks, fixed and variable costs, industry price fluctuations, governmental programs and foreign markets. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>AGBUS 102</b> <b>Agriculture Records</b> <i>Course Advisories: SCC minimum English and math standards.</i> The application of agricultural accounting techniques with special emphasis on accounting systems, financial statements, income tax, social security and earning efficiency measurements. <i>Two hours lecture.</i>	<b>2 Units</b>
<b>AGBUS 54</b> <b>Agriculture Finance</b> <i>Course Advisories: SCC minimum English and math standards; AGBUS 102.</i> Financial principles, procedures, and problems in establishing and operating an agricultural business. Emphasis on the various sources of credit, methods of application, use of budgets, cash flow sheets, promissory notes and mortgages. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>AGBUS 107</b> <b>Agriculture Sales and Services</b> <i>Prerequisite: AGBUS 53. Course Advisories: SCC minimum English and math standards.</i> Presents information on the growth and opportunities of agricultural sales; factors involved in developing sales programs for agricultural operations; selling principles and practices serving agriculture and related businesses and non-agricultural customers. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>AGBUS 55</b> <b>Agriculture Business Management</b> <i>Course Advisories: SCC minimum English and math standards.</i> Processes of management as applied to production enterprises and agricultural business operations. Emphasis on enterprise selection, calendar of operations, record keeping systems, property descriptions and land use classifications. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>AGBUS 108</b> <b>Agriculture Law</b> <i>Course Advisories: SCC minimum English and math standards.</i> Presents the laws and legal aspects of agricultural contracts, water rights, tax requirements, employer responsibilities, and regulations governing California's agriculture. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>AGBUS 56</b> <b>Agriculture Marketing</b> <i>Prerequisite: AGBUS 53. Course Advisories: SCC minimum English and math standards.</i> The problems of marketing agriculture commodities with emphasis on market analysis, price determination, processing and storage, governmental price and marketing programs, standardization and grading, marketing organizations and future trading affecting California's agriculture production. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>AGBUS 109</b> <b>Agricultural Supervision</b> <i>Course Advisories: SCC minimum English and math standards.</i> Presents the responsibilities of the agricultural supervisor including labor management, job analysis, management of migrant labor, group instruction techniques, human relations and union organization. Case problems will be studied. <i>Three hours lecture.</i>	<b>3 Units</b>

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# Art

Fine & Applied Arts/Behavioral Sciences Division

## 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.

## Required Courses

### Art—Two-Dimensional

	Units	Recommended Electives
ART 1—Art History		ART 10, 12, 16, 18, 19, 20, 21, 22, 24, 25,
OR		27, 28, 32, 33, 34, 35, 37, 39, 40, 41, 43,
ART 2—Art History	3	44, 45, 48, 58, 60, 61, 100, 145
ART 4—Life Drawing	2-3	PHOTO 30
ART 6—Design Principles in 2-Dimensions	3	
ART 7—Design-Color	3	
ART 8—Design Principles in 3-Dimensions	3	
ART 11—Survey of Modern Art	3	
ART 14—Intro. to Drawing (2-3 units)		
OR		
ART 15—Intermediate Drawing (3 units)	2-3	
ART 17—Acrylic and Oil Painting	2-3	
ART 31—Sculpture		
OR		
ART 23—Intro. to Ceramics: Hand Building		
OR		
ART 26—Intro. to Ceramics: Wheel Throw		
	2-3	
	23-27	

### Art—Three-Dimensional

	Units	Recommended Electives
ART 1—Art History		ART 3, 10, 11, 12, 15, 24, 25, 27, 28,
OR		34, 35, 37, 39, 40, 41, 42, 43, 48, 60
ART 2—Art History	3	
ART 4—Life Drawing (3 units)		
OR		
ART 15—Interm. Drawing (2 or 3 units)	2-3	
ART 6—Design Principles in 2-Dimensions	3	
ART 7—Design-Color	3	
ART 8—Design Principles in 3-Dimensions	3	
ART 11—Survey of Modern Art	3	
ART 14—Introduction to Drawing	2	
ART 23—Intro./Ceramics: Hand Building		
OR		
ART 26—Intro./Ceramics: Wheel Throw.		
	2-3	
ART 31—Sculpture	2-3	
ART 32—Sculpture: Human Figure	2-3	
ART 33—Intermediate Sculpture	2-3	
	27-32	

# 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 27-30 units for the major, the general education requirements, and electives.

## Required Courses

	<b>Units</b>	<b>Recommended Electives</b>
ART 1—Art History	3	ART 3*, 4, 5, 6, 7, 8, 10, 12*, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43, 44, 45, 48, 49, 52, 53, 54, 55, 56, 57, 58, 61, 98, 100, 145, 148 CINMA 10*, 15 FRNCH 1, 2, 3, 4, 31, 32, 33, 34 GERMN 1, 2, 3, 4, 31, 32, 33, 34 HIST 2, 3, 4, 5 HUMN 2 LATIN 1, 2, 3 PHLOS 31, 32 PHOTO 30, 35*
ART 2—Art History	3	
ART 3—World Art		
OR		
ART 12—Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America	3	
ART 11—Survey of Modern Art	3	
ART 60—Exhibition Design	3	
PHOTO 35—The Art of Photography		
OR		
CINMA 10—The Art of Cinema	3	
ART 6—Design Principles in 2-Dimensions		
OR		
ART 7—Design-Color		
OR		
ART 8—Design Principles in 3-Dimensions	3	
ART 14—Introduction to Drawing		
OR		
ART 23—Introduction to Ceramics: Hand Building		
OR		
ART 31—Sculpture	2-3	
Electives--two courses from Recommended List*	4-6 27-30	

\*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 24-27 unit major, the general education requirements, and electives.

### Required Courses

	Units	Recommended Electives
ART 4— Life Drawing OR ART 15—Intermediate Drawing	2-3	ART 1, 2, 4*, 5, 10, 15*, 23, 26, 31, 32, 38, 39, 41, 53
ART 6—Design Principles in 2-Dimensions	3	BUS 181
ART 7—Design-Color	3	CINMA 10, 15
ART 14—Intro. to Drawing	2-3	DRAFT 50, 70
ART 52—Lettering and Layout	2-3	ENGL 51
ART 54—Illustration I	3	JOURN 60, 61
ART 55—Illustration II	3	MKT 170, 171, 172
ART 56—Graphic Design I	3	OCCED 90, 91
ART 57—Graphic Design II	3	PHOTO 30, 148
	24-27	TV 50, 55, 56

\*If not taken as part of the major.

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#### ART 1 3 Units

##### Art History

*Course Advisory: Eligibility for ENGL 1.* Covers the history of art in the Western World from the Paleolithic era to the Middle Ages, focusing on the interrelation of art and culture, with a comparative study of selected non-Western art. (CAN ART 2) (ART 1 & 2 = CAN ART SEQ A). *Three hours lecture.*

#### ART 2 3 Units

##### Art History

*Course Advisory: Eligibility for ENGL 1.* Covers the history of Western Art through a critical analysis of Renaissance art through 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. (CAN ART 4) (ART 1 & 2 = CAN ART SEQ A). *Three hours lecture.*

#### ART 3 3 Units

##### World Art

*Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard.* 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. *Three hours lecture.*

#### ART 4 2 or 3 Units

##### Life Drawing

*Course Advisory: SCC minimum English standard.* A study of the human figure in action and repose using a variety of drawing materials and approaches. Assignments include line drawings, tone studies, the use of color, and portraits. The student submits a midterm and final portfolio for evaluation. (CAN ART 24). *One to two hours lecture, three to four hours lab.*

<p><b>ART 5</b> <span style="float: right;"><b>2 or 3 Units</b></span></p> <p><b>Life Drawing</b>  <i>Prerequisite: ART 4.</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. Repeatable 1 time. <i>One to two hours lecture, three to four hours lab.</i></p>	<p><b>ART 11</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Survey of Modern Art</b>  <i>Course Advisory: Eligibility for ENGL 1.</i> A study of the major art styles and artists from 1875 to the present. Analysis of subject, form and content of paintings and sculpture in lecture and audio visual presentation. Classes supplemented by field trips to current exhibitions. Written examinations and term paper required. <i>Three hours lecture.</i></p>
<p><b>ART 6</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Design Principles in 2-Dimensions</b>  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. (CAN ART 14). <i>Two hours lecture, four hours lab.</i></p>	<p><b>ART 12</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Inside/Outside: The Cultures and Identities of Visual Artists in a Diverse America</b>  <i>Course Advisory: ENGL 1.</i> An art survey course that examines and assesses three or more groups of culturally diverse artists, art organizations and support structures. Issues relating to social and historical trends including the role of art as it influences American attitudes towards ethnic identity, race, gender, culture and discrimination will be explored. <i>Three hours lecture.</i></p>
<p><b>ART 7</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Design—Color</b>  <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. (CAN ART 22). <i>Two hours lecture, four hours lab.</i></p>	<p><b>ART 14</b> <span style="float: right;"><b>2 or 3 Units</b></span></p> <p><b>Introduction to Drawing</b>  <i>Course Advisory: SCC minimum English standard.</i> 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. Repeatable 1 time. (CAN ART 8). <i>One to two hours lecture, three to four hours lab.</i></p>
<p><b>ART 8</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Design Principles in 3-Dimensions</b>  <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. <i>Two hours lecture, four hours lab.</i></p>	<p><b>ART 15</b> <span style="float: right;"><b>2 or 3 Units</b></span></p> <p><b>Intermediate Drawing</b>  <i>Course Advisories: ART 14; SCC minimum English and math standards.</i> A basic drawing class which develops the concepts introduced in ART 14 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. <i>One to two hours lecture, three to four hours lab.</i></p>
<p><b>ART 10</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Art Appreciation</b>  <i>Course Advisory: Eligibility for ENGL 1.</i> A study of the visual elements, materials and techniques used in the creation of art forms, including analysis of art across history and cultures. Audio-visual presentation and field trips that focus on the importance of understanding subject, form and content in the appreciation of art. <i>Three hours lecture.</i></p>	<p><b>ART 16</b> <span style="float: right;"><b>2 or 3 Units</b></span></p> <p><b>Beginning Painting</b>  <i>Course advisory: ART 14; SCC minimum English standard.</i> 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. Repeatable 1 time. <i>One to two hours lecture, three to four hours lab.</i></p>

# Art

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<b>ART 17</b>	<b>2 or 3 Units</b>	<b>ART 21</b>	<b>2 or 3 Units</b>
<b>Acrylic and Oil Painting</b> 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. (CAN ART 10). <i>One to two hours lecture, three to four hours lab.</i>		<b>Watercolor</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>One to two hours lecture, three to four hours lab.</i>	
<b>ART 18</b>	<b>2 or 3 Units</b>	<b>ART 22</b>	<b>2 or 3 Units</b>
<b>Acrylic and Oil Painting</b> <i>Prerequisite: ART 17.</i> 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 17 or develop an outline of semester assignments appropriate to his interest and skill needs. Repeatable 1 time. <i>One to two hours lecture, three to four hours lab.</i>		<b>Watercolor</b> <i>Prerequisite: ART 21. Course Advisory: SCC minimum English standard.</i> 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. Repeatable 1 time. <i>One to two hours lecture, three to four hours lab.</i>	
<b>ART 19</b>	<b>2 or 3 Units</b>	<b>ART 23</b>	<b>2 or 3 Units</b>
<b>Figure Painting</b> <i>Course Advisory: SCC minimum English standard.</i> A study of figure painting techniques. Students work directly from the model to develop skills in rendering and expression. Repeatable 1 time. <i>One to two hours lecture, three to four hours lab.</i>		<b>Introduction to Ceramics: Hand Building</b> 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. (CAN ART 6). Repeatable 1 time. <i>One to two hours lecture, three to four hours lab.</i>	
<b>ART 20</b>	<b>2 or 3 Units</b>	<b>ART 24</b>	<b>2 or 3 Units</b>
<b>Landscape Drawing and Painting—Reflections of Nature</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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. May be repeated to a maximum of 9 units, including initial enrollment. <i>One to two hours lecture, three to four hours lab.</i>		<b>Intermediate Ceramics: Hand Building</b> <i>Prerequisite: ART 23.</i> Continuation of ART 23 with emphasis on expanding skills, experimentation, design, craftsmanship, and creativity. Application of basic techniques to create finished art forms. <i>One to two hours lecture, three to four hours lab.</i>	
		<b>ART 25</b>	<b>2 or 3 Units</b>
		<b>Ceramic Design and Decoration: Hand Building Methods</b> <i>Prerequisite: ART 24.</i> 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 23 and Art 24. <i>One to two hours lecture, three to four hours lab.</i>	

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<p><b>ART 26</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Introduction to Ceramics: Wheel Throwing Techniques</b>          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. <i>One to two hours lecture, three to four hours lab.</i></p>	<p><b>ART 33</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Intermediate Sculpture</b>  <i>Prerequisites: ART 31 or ART 32 or ART 34.</i> Further development of concepts and skills presented in ART 31 and 32. Emphasis is placed on individual expression. A variety of materials, methods, and sculptural concepts are explored. Repeatable 3 times. <i>One to two hours lecture, three to four hours lab.</i></p>
<p><b>ART 27</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Intermediate Ceramics: Wheel Throwing Techniques</b>  <i>Prerequisite: ART 26.</i> Continuation of ART 26 with emphasis on expanding skills, experimentation, design, craftsmanship, and creativity. Application of basic techniques to create finished art forms. <i>One to two hours lecture, three to four hours lab.</i></p>	<p><b>ART 34</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Ceramic Sculpture</b>  <i>Course Advisory: SCC minimum English standard.</i> 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. Repeatable 2 times. <i>Two to three hours lecture, two to three hours lab.</i></p>
<p><b>ART 28</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Ceramic Design: Wheel Throwing Techniques</b>  <i>Prerequisite: ART 27.</i> 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 26 and ART 27. <i>One to two hours lecture, three to four hours lab.</i></p>	<p><b>ART 35</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Wood-Fired Ceramics</b>  <i>Prerequisite: ART 23 or ART 26. Course Advisories: SCC minimum English and math standards.</i> 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. Course will require participation in wood firing with some time spent outside regularly scheduled class hours. Repeatable 3 times. <i>One to two hours lecture, three to four hours lab.</i></p>
<p><b>ART 29</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Raku Pottery</b>  <i>Prerequisite: ART 23 or ART 26 or equivalent.</i> 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. Repeatable 2 times. <i>One to two hours lecture, three to four hours lab.</i></p>	<p><b>ART 37</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Clay and Glazes for the Ceramic Artist</b>  <i>Prerequisite: ART 23 or 26. Course Advisories: SCC minimum English and math standards.</i> 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. Repeatable 2 times. <i>Two to three hours lecture, two to three hours lab.</i></p>
<p><b>ART 31</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Sculpture</b>          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. (CAN ART 12). <i>One to two hours lecture, three to four hours lab.</i></p>	
<p><b>ART 32</b> <span style="float: right;"><b>2 or 3 Units</b></span>  <b>Sculpture—Human Figure</b>          Study of the human form in sculpture. Students will create both realistic and abstract sculpture of the human form in a variety of materials. <i>One to two hours lecture, three to four hours lab.</i></p>	

# Art

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**ART 38**

**3 Units**

## **Introduction to Printmaking**

*Course Advisory: SCC minimum English and math standards.* Explores traditional and contemporary approaches to silkscreen, etching (Intaglio), lithography, and relief (woodcut and linoleum) printing. Newer print processes like offset lithography, thermographic and computer-mediated print processes are discussed and demonstrated. This course is project oriented to enable the student to develop a portfolio of completed works in various mediums. *Two hours lecture, four hours lab.*

**ART 39**

**2 or 3 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. (CAN ART 20). *One to two hours lecture, three to four hours lab.*

**ART 40**

**2 or 3 Units**

## **Etching and Engraving: Tone**

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. *One to two hours lecture, three to four hours lab.*

**ART 41**

**2 or 3 Units**

## **Etching & Engraving: Color**

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. *One to two hours lecture, three to four hours lab.*

**ART 42**

**2 Units**

## **Printmaking: Silkscreen**

Includes basic silkscreen printing, with an emphasis on learning the principal techniques and application in the production of original design. Repeatable 3 times. *One hour lecture, three hours lab.*

**ART 43**

**2 or 3 Units**

## **Printmaking: Relief Printing, Including Woodcut**

Includes etching and engraving techniques in areas of relief printing such as collograph, embossment, de-embossment, assemblages, woodblock, and stencils from plant forms. The students will prepare a portfolio of completed projects. Repeatable 3 times. *One to two hours lecture, three to four hours lab.*

**ART 49**

**2-3 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. May be repeated to a maximum of 6 units, including initial enrollment. *Six to nine hours weekly by arrangement.*

**ART 52**

**2 or 3 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 hours lab weekly.*

**ART 53**

**2 Units**

## **Layout Indication**

*Prerequisite: ART 52 or equivalent. Course Advisory: SCC minimum English standard.* Introduction to basic use of markers in creating professional layouts, including how to achieve various textures and effects with markers; understanding the marker as a tool for a quick, crisp method in layout advertising, brochures, posters, etc. *One hour lecture, three hours lab.*

**ART 54**

**3 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. *Two hours lecture, four hours lab.*

<p><b>ART 55</b>  <b>Illustration II</b>  <i>Prerequisite: ART 54 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 hours lab.</i></p>	<p><b>3 Units</b></p>	<p><b>ART 64</b>  <b>Monotype/monoprint</b>  <i>Course Advisories: SCC minimum English and math standards. This course will focus on the unique print. Study will include history and development of this form in relation to print tradition. Development of press skills in single-drop and multi-drop printing is required. A portfolio of printing techniques including direct, indirect and combination prints will be required. Repeatable 2 times. Two hours lecture, four hours lab.</i></p>	<p><b>3 Units</b></p>
<p><b>ART 56</b>  <b>Graphic Design I</b>            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. <i>Two hours lecture, four hours lab.</i></p>	<p><b>3 Units</b></p>	<p><b>ART 65</b>  <b>Book Making</b>  <i>Course Advisories: SCC minimum English and math standards. Explores book making in a variety of formats. Discussion of the history and development of the book is included. Students will make several books: Classic signature book bound between boards, side bound books and a variety of artist's books including altered books, boxed books, and 3 dimensional book structures like accordion books and pop-up books. Repeatable 2 times. Two hours lecture, four hours lab.</i></p>	<p><b>3 Units</b></p>
<p><b>ART 57</b>  <b>Graphic Design II</b>  <i>Prerequisite: ART 56. 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. Two hours lecture, four hours lab.</i></p>	<p><b>3 Units</b></p>	<p><b>ART 100</b>  <b>Color and Mixed Media Drawing</b>  <i>Course Advisory: SCC minimum English standard. Course focuses on the use of a variety of drawing materials and techniques with special attention to color theory. Lectures, demonstrations and field study will supplement class assignments. Repeatable 1 time. One to two hours lecture, three to four hours lab.</i></p>	<p><b>2 or 3 Units</b></p>
<p><b>ART 58</b>  <b>Clothed Figure</b>  <i>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 hours lab.</i></p>	<p><b>2 or 3 Units</b></p>	<p><b>ART 145</b>  <b>Portrait Drawing and Painting</b>  <i>Course Advisory: ART 14. 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. Repeatable 1 time. One to two hours lecture, three to four hours lab.</i></p>	<p><b>2 or 3 Units</b></p>
<p><b>ART 60</b>  <b>Exhibition Design</b>  <i>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. Repeatable 2 times. Two hours lecture, four hours lab.</i></p>	<p><b>3 Units</b></p>	<p><b>Special Topics</b>            These courses, numbered 48, 98, 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.</p>	
<p><b>ART 61</b>  <b>Collage and Assemblage</b>  <i>Course Advisory: SCC minimum English standard. Explores the making of 2D and 3D collages 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. Repeatable 1 time. One to two hours lecture, three to four hours lab.</i></p>	<p><b>2 or 3 Units</b></p>		

# Automotive

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

Career Technical Education Division

## 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 in Science Degree

A Certificate of Achievement can be obtained upon completion of 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.

### Required Courses

	Units	Recommended Electives
AUTOB 100—Fundamentals of Auto Body Repair	10	BUS 5
AUTOB 101—Spray Paint Theory and Techniques	10	DRAFT 79
AUTOB 102—Automotive Body Panels and Frame Straightening	10	IT 110, 160
AUTOB 103—Advanced Auto Body Repair and Painting	10	OCCED 90, 91
IT 140—Industrial Materials	3	
IT 150—Industrial Processes	3	
	46	

## 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 in 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.

### Required Courses

	Units	Recommended Electives
AUTOT 130—Automotive Systems	10	BUS 5
AUTOT 131—Automotive Electrical Systems	10	ECTR 101
AUTOT 132—Automotive Brakes & Suspension Systems	10	IT 110, 140, 150, 160
AUTOT 133—Internal Combustion Engines & Power Transmission	10	OCCED 90, 91
	40	

## ***Automotive Body and Repair***

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

### **AUTOB 100 10 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.*

### **AUTOB 101 10 Units**

#### **Spray Paint Theory and Techniques**

*Prerequisite: AUTOB 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.*

### **AUTOB 102 10 Units**

#### **Automotive Body Panels and Frame Straightening**

*Prerequisite: AUTOB 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.*

### **AUTOB 103 10 Units**

#### **Advanced Auto Body Repair and Painting**

*Prerequisites: AUTOB 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.*

### **AUTOB 110 3 Units**

#### **Special Projects**

*Prerequisites: AUTOB 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.*

#### **Special Topics**

These courses, numbered 148, 248, or 548, 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***

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

### **AUTOT 130 10 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 AUTOT 131, 132, and 133. Testing and manipulative skills based on industry standards. *Five hours lecture, fifteen hours lab.*

### **AUTOT 131 10 Units**

#### **Automotive Electrical Systems**

*Prerequisite: AUTOT 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.*

### **AUTOT 132 10 Units**

#### **Automotive Brakes and Suspension Systems**

*Prerequisite: AUTOT 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.*

### **AUTOT 133 10 Units**

#### **Internal Combustion Engines and Power Transmission**

*Prerequisite: AUTOT 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

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Business & Computer Science Division

## 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.

## Required Courses

	Units	Recommended Electives
BIF 150—Principles of Bank Operation	3	
BUS 18—Legal Environment of Business	3	CIS 55, 73, 60
BUS 181—Business Mathematics	3	OCCED 90, 91
CIS 50—Microcomputers Applications	3	
MGMT 191—Human Relations	3	
SPEECH 1—Introduction to Public Speaking		
OR		
SPEECH 60—Communication Strategies	3	
Elective(s) selected from the Recommended Electives	<u>3</u>	
	21	

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**BIF 150**

**3 Units**

### Principles 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.*

## 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 with a grade of "C" (2.0) or better in each course, the general education requirements, and electives for a total of 64-66 units.

## Required Courses

	Units
BIOSC 1—Organismal Biology	5
BIOSC 2—Cell and Molecular Biology	5
CHEM 1 & 2—General Chemistry (5 & 5 units)	10
CHEM 3 & 4—Organic Chemistry (5 & 5 units)	10
MATH 30 & 31—Analytic Geometry and Calculus (3 & 3 units)	
OR	
MATH 20 & 21—Analytic Geometry & Calc. (4 & 4 units)	6-8
PHYS 2 & 4—General Physics (Non- Calculus) (4 & 4 units)	
OR	
PHYS 6 & 7—Physics for Science/ Engineering (4 & 4 units)	8
	44-46

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### BIOSC 1

5 Units

#### Principles of Organismal Biology

*Prerequisite: MATH 104. Course Advisory: Eligibility for ENGL 1.* 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. (BIOSC 1 & 2 = CAN BIOL SEQ A). *Three hours lecture, six hours lab.*

### BIOSC 2

5 Units

#### Principles of Cell and Molecular Biology

*Prerequisite: CHEM 1. Course Advisory: Eligibility for ENGL 1.* An introduction to basic concepts of cell and molecular biology that includes Mendelian and molecular genetics. Laboratory work includes performing current procedures in molecular biology with accurate reporting in scientific style. (CAN BIOL 2) (BIOSC 1 & 2 = CAN BIOL SEQ A). *Three hours lecture, six hours lab.*

### BIOSC 5

5 Units

#### Introductory Physiology

*Prerequisite: A grade of "C" or better in CHEM 1 or CHEM 10. Course Advisory: SCC minimum English and math standards; it is recommended that BIOSC 6 be taken **before** BIOSC 5.* A physiology course that studies normal mechanisms and homeostatic relationships of most systems of the body from the molecular to the gross levels. The laboratory relates microstructure to function; utilizes a variety of instruments and techniques for measuring body parameters; and establishes the rationale for determining functional status. (CAN BIOL 12) (BIOSC 5 & 6 = CAN BIOL SEQ B). *Three hours lecture, six hours lab.*

# Biology

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<b>BIOSC 6</b> <b>Human Anatomy</b> <i>Course Advisories: SCC minimum English and math standards. A study of the structure of the human body involving histology, gross dissection and prepared human materials. (CAN BIOL 10) (BIOSC 5 &amp; 6 = CAN BIOL SEQ B). Three hours lecture, six hours lab.</i>	<b>5 Units</b>	<b>BIOSC 15</b> <b>Introduction to Biology</b> <i>Prerequisite: None. NOTE: Not open for credit to students who have completed BIOSC 1 or 2. Course Advisories: Eligibility for ENGL 1; SCC minimum math standard. A non-majors biology course that introduces basic concepts of living organisms including aspects of biological chemistry, cell structure and function, physiology, genetics, evolution, and ecology. Students must successfully complete both the lecture AND lab portions of the course. Three hours lecture, three hours lab weekly, including field trips.</i>	<b>4 Units</b>
<b>BIOSC 10</b> <b>Anatomy and Physiology</b> <i>Prerequisite: A grade of "C" or better in CHEM 160 or one year of high school chemistry. Course Advisory: SCC minimum English standard. Presents a study of the structure and function of the major human organ systems. The lab involves the study of the cadaver and human dissections, microscopic anatomy, and physiological testing. Student evaluations will include written exams and laboratory practica, and may include additional written assignments. Three hours lecture, six hours lab.</i>	<b>5 Units</b>	<b>BIOSC 16</b> <b>Introduction to Human Biology</b> <i>Prerequisite: None. NOTE: Not open for credit to students who have completed BIOSC 1, 2, 5, 10 or 15. Course Advisories: SCC minimum English and math standards. An introduction to general biology with emphasis on the human model. Topics include cell structure and function, human evolution, anatomy and physiology, genetics, and the human impact on the environment. This is a course for non-majors. Three hours lecture.</i>	<b>3 Units</b>
<b>BIOSC 12</b> <b>Environmental Science</b> <i>Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard. 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 non-renewable energy, water, and air); and 3) the production of pollution and other wastes. Three hours lecture.</i>	<b>3 Units</b>	<b>BIOSC 18</b> <b>Biology of Sex</b> <i>Course Advisories: SCC minimum English and math standards. Our biological bases of sex and sexuality will be discussed and compared with other organisms. Essay and objective exams as well as written assignments will be used for student evaluations; the final exam will be comprehensive. Three hours lecture.</i>	<b>3 Units</b>
<b>BIOSC 12L</b> <b>Environmental Science Laboratory</b> <i>Prerequisite: BIOSC 12 (may be taken concurrently) Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard. A course that uses laboratory and mandatory field trip techniques to examine the ecological roles of organisms, resource use, and pollution/waste. Three hours lab.</i>	<b>1 Unit</b>	<b>BIOSC 19</b> <b>Marine Biology</b> <i>Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard. A non-majors course that studies the diversity and natural history of life in the marine environment with an emphasis on the adaptations of organisms to their environment. Lecture and laboratory exams, written reports and several field trip activities are required to fulfill the course requirements. Some field trips may involve a fee. Three hours lecture, three hours lab.</i>	<b>4 Units</b>
<b>BIOSC 14</b> <b>Principles of Microbiology</b> <i>Prerequisite: CHEM 10. Course Advisory: SCC minimum English standard. 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 aseptic techniques, identification, staining, and microbial growth among others. (CAN BIOL 14). Three hours lecture, three hours lab.</i>	<b>4 Units</b>	<b>BIOSC 47</b> <b>Independent Study</b> <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 1; statistics may be useful for data analysis. 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. One and one-half to nine hours weekly by arrangement.</i>	<b>.5-3.0 Units</b>

**BIOSC 49H****1-3 Units****Biology Honors**

*Prerequisites: Eligibility for Honors Program; BIOSC 1, BIOSC 2, BIOSC 5, BIOSC 14, or BIOSC 15 (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 1. Requires students to complete an independent student project under the supervision of a member of the faculty. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. Three to nine hours weekly by arrangement.*

**BIOSC 99****.5-2.0 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. Three to six hours weekly by arrangement.*

**Special Topics**

These courses, numbered 48, 98, 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.

# Biotechnology Production Technician

Math & Science Division

## 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 with a grade of "C" (2.0) or better in each course, general education requirements and electives.

## Required Courses

	Units
BIOTCH 51—Principles of Biotechnology	3
BIOTCH 52—Business & Regulatory Practices in Biotechnology	3
BIOTCH 62—Cell Culture and Protein Recovery	4
BIOTCH 63—Biotechnology Instrumentation: Quality Control & Genetic Engineering	4
BIOSC 14—Principles of Microbiology (4 units) OR	
BIOSC 2—Principles of Cell and Molecular Biology (5 units)	4-5
CHEM 10—Intermediate Chemistry (4 units) OR	
CHEM 1—General Chemistry (5 units)	4-5
	22-24

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

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### BIOTCH 51

3 Units

#### Principles of Biotechnology

*Prerequisite: BIOSC 14 or BIOSC 2. Course Advisories: SCC minimum English and math standards.* 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.*

### BIOTCH 52

3 Units

#### Business and Regulatory Practices in Biotechnology

*Course Advisories: Eligibility for ENGL 1; 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.*

## BIOTCH 62

4 Units

### Cell Culture and Protein Recovery

*Prerequisites: BIOSC 14 or BIOSC 2. Course Advisory: Eligibility for ENGL 1.* 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.*

## BIOTCH 63

4 Units

### Biotechnology Instrumentation: Quality Control & Genetic Engineering

*Prerequisite: BIOSC 14 or BIOSC 2. Course Advisory: Eligibility for ENGL 1.* 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.*

# *Business, General (Transfer)*

*Business & Computer Science Division*

## **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 with a grade of "C" or better in each course, general education requirements, and electives.

## **Required Courses and Electives**

ACCT 1—Accounting—Financial	4	<b>Recommended Electives:</b> BUS 92
ACCT 2—Accounting—Managerial	4	
BUS 5—Introduction to Business	3	CIS 20, 22, 23, 25
BUS 18—Legal Environment of Business	3	MATH 11, 15, 20, 21, 30, 31
CIS 1—Introduction to Computer Science	3	OCCED 90, 91
OR		
CIS 50—Microcomputer Applications	3	Suggested general education math courses for the Business, General (Transfer) major are MATH 11 (Statistics) and MATH 15 (Finite Math) OR MATH 30 (Analytical Geometry and Calculus). Students should consult a counselor regarding Business Articulation Agreements for a particular college or university campus.
ECON 1—Prin. of Economics	3	
ECON 2—Prin. of Economics	3	
Elective(s) selected from the Recommended Electives	3	
	<u>3</u>	
	26	

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# *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.

## **Required Courses**

ACCT 1—Principles of Accounting-Financial	4	BUS 73—Commercial Insurance	3
BUS 92—Business Communication	3	BUS 74—Insurance--Code & Ethics	1
BUS 5—Introduction to Business	3	OCCED 90—Occupational Work Experience	<u>1</u>
BUS 18—Legal Environment of Business	3		31
CIS 50—Microcomputer Applications	3		
CIS 73—Microsoft Excel	3		
BUS 70—Introduction to Insurance	1	<b>Recommended Electives</b>	
BUS 71—Principles of Property/Liability Insurance	3	MKT 171, 173	
BUS 72—Personal Insurance	3		

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

**BUS 5** **3 Units**

**Introduction To Business**

*Course Advisories: Eligibility for ENGL 1, SCC minimum math standard.* A comprehensive study and analysis of the principles of business. The course introduces students to contemporary business principles, practices, and terminology. Students will gain an understanding and appreciation of the private enterprise system, and how the functional areas of business work and interrelate. The course explores business career opportunities, provides the prerequisite knowledge needed for success in other business courses, and prepares students for transfer to upper-division business degree programs. Assigned readings, class participation, written homework, and written examinations are required. *Three hours lecture.*

**BUS 18** **3 Units**

**Legal Environment of Business**

*Course Advisories: Eligibility for ENGL 1, SCC minimum math standard.* 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. (CAN BUS 12). *Three hours lecture.*

**BUS 58** **3 Units**  
**See Human Development 58.**

**BUS 60** **3 Units**

**Introduction to International Business**

*Course Advisories: Eligibility for English 1, SCC minimum math standard.* A comprehensive overview designed to provide a global perspective in a continuously emerging international marketplace, including topics such as foreign investing, impact of financial markets, international marketing, cultural understanding, and operation of multinational and small companies. *Three hours lecture.*

**BUS 70** **1 Unit**

**Introduction to Insurance**

*Course Advisories: Eligibility for English 1, SCC minimum math standard.* Provides students with the background needed prior to taking the other insurance courses. Included are topics such as property/casualty insurance, distribution of insurance products and services to the consumer, how insurance company departments function, civil laws or tort and contract, basic commercial and personal Insurance Services Office (ISO) contracts, and the risk management process. *Three hours lecture. (6 week course).*

**BUS 71** **3 Units**

**Principles of Property and Liability Insurance**

*Course Advisories: Eligibility for English 1, SCC minimum math standard.* One of five insurance courses that are designed to prepare students for employment in the insurance industry, which consists of many different types of employment opportunities, from selling insurance to working in a variety of positions in an insurance company. *Three hours lecture.*

**BUS 72** **3 Units**

**Personal Insurance**

*Course Advisories: Eligibility for English 1, SCC minimum math standard.* Assists individuals in learning basic information regarding personal insurance. It includes information about automobile insurance; homeowners' insurance; other residential insurance, such as fire and earthquake insurance; marine insurance; and other personal property. *Three hours lecture.*

**BUS 73** **3 Units**

**Commercial Insurance**

*Course Advisories: Eligibility for English 1, SCC minimum math standard.* One of five insurance courses designed to prepare students for employment in the insurance industry. Emphasis for this course is on commercial insurance. The insurance industry offers many different types of employment opportunities, from selling insurance to working in an insurance office. *Three hours lecture.*

**BUS 74** **1 Unit**

**Insurance -- Code & Ethics**

*Course Advisories: Eligibility for English 1, SCC minimum math standard.* Designed to enable students to understand and apply proper ethical business behavior and obligations, especially as they relate to those working in the field of insurance. *Three hours lecture. (6 week course).*

# Business

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**BUS 92**

**3 Units**

**Business Communication**

*Course Advisories: Eligibility for ENGL 1; SCC minimum math standard.* A study of communication theory in the planning and preparation of various types of letters, reports, resumes, and oral presentations along with analysis of group dynamics, symbolic communication, interview techniques and listening skills. Stresses audience analysis, style, appearance, and the importance of grammar, punctuation and vocabulary. Strong focus on gender and cultural communication issues and strategies in the workplace. Critical thinking encouraged through written and oral assignments and case studies on business communication and ethical issues. *Three hours lecture.*

**BUS 99**

**1-3 Units**

**Business 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.* 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. *Three to nine hours weekly by arrangement.*

**BUS 100**

**1.5 Units**

**Work Readiness**

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

**BUS 119**

**3 Units**

**Project Management**

*Prerequisites: CIS 1 or CIS 50 and BUS 5. Course Advisories: ECON 2, ACCT 2, CIS 91, BUS 92; SCC minimum English and math standards.* 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) *Three hours lecture, one hour lab weekly by arrangement.*

**BUS 181**

**1-3 Units**

**Business Mathematics**

*Course Advisory: SCC minimum English standard.* 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 self-paced, programmed learning class is open entry/open exit. May be repeated to a maximum of 3 units, including initial enrollment. *Three hours lecture.*

**BUS 182**

**1 Unit**

**Small Business Mathematics**

*Course Advisories: SCC minimum English and math standards.* 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 self-paced, programmed learning course is open entry/open exit. *One hour lecture.*

**BUS 191**

**3 Units**

**Investment Fundamentals**

*Course Advisory: SCC minimum English standard.* A comprehensive study and analysis of investment strategies available to investors. Topics covered include the stock and bond market, gold, money markets and options. *Three hours lecture.*

**BUS 201**

**.5 Unit**

**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. *Eight hours lecture total.*

**BUS 202**

**.5 Unit**

**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. *Eight hours lecture total.*

<b>BUS 203</b>	<b>.5 Unit</b>	<b>BUS 209</b>	<b>.5 Unit</b>
<b>Business Financial Management</b> 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>		<b>Establishing a Home-Based Business</b> 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>	
<b>BUS 204</b>	<b>.5 Unit</b>	<b>BUS 210</b>	<b>.5 Unit</b>
<b>Managing Credit and Collections</b> 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>		<b>Record Keeping for Small Business</b> 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>	
<b>BUS 205</b>	<b>.5 Unit</b>	<b>BUS 211</b>	<b>.5 Unit</b>
<b>Business Budgeting</b> 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>		<b>Marketing and Advertising</b> 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>	
<b>BUS 206</b>	<b>.5 Unit</b>	<b>BUS 212</b>	<b>.5 Unit</b>
<b>Planning for Sales and Profit</b> 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>		<b>Risk Management and Insurance</b> 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>	
<b>BUS 207</b>	<b>.5 Unit</b>	<b>Special Topics</b>	
<b>Recruiting and Selecting Employees</b> 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>		These courses, numbered 98, 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.	
<b>BUS 208</b>	<b>.5 Unit</b>		
<b>Employee Relations and Personnel Policies</b> 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>			

# Chemistry

Math & Science Division

## 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 with a grade of "C" (2.0) or better in each course, general education requirements, and electives.

## Required Courses

	Units
CHEM 1 & 2—General Chemistry (5 & 5 units)	10
CHEM 3 & 4—Organic Chemistry (5 & 5 units)	10
BIO SC (any course except 48 or 98)	3 – 5
PHYS 2—Gen. Physics (Non-Calculus) (4 units)	
OR	
PHYS 6—Gen. Physics (Calculus) (4 units)	
OR	
PHYS 10—Descriptive Physics (3 units)	3 – 4 26-29

### CHEM 1

5 Units

#### General Chemistry (F/S)

*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: CHEM 10 is strongly recommended for students who need additional preparation in problem solving; SCC minimum English standard. 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. (CAN CHEM 2) (CHEM 1 & 2 = CAN CHEM SEQ A). Three hours lecture, six hours lab.*

### CHEM 2

5 Units

#### General Chemistry (F/S)

*Prerequisite: CHEM 1 or equivalent with a grade of "C" or better. A continuation of chemical principles and theory covered in CHEM 1 with emphasis on electrochemistry, chemical equilibrium, and quantitative and qualitative analysis. (CAN CHEM 4) (CHEM 1 & 2 = CAN CHEM SEQ A). Three hours lecture, six hours lab.*

### CHEM 3

5 Units

#### Organic Chemistry I (F)

*Prerequisite: CHEM 2 with a grade of "C" or better. Course Advisory: ENGL 1 is strongly recommended. First half of a two semester course (CHEM 3 and CHEM 4) 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. Four hours lecture, four hours lab.*

### CHEM 4

5 Units

#### Organic Chemistry II (S)

*Prerequisite: CHEM 3 with a grade of "C" or better. A continuation of CHEM 3, 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. Four hours lecture, four hours lab.*

<p><b>CHEM 5</b> <span style="float: right;"><b>4 Units</b></span></p> <p><b>Quantitative Analysis</b> (On demand)  <i>Prerequisite:</i> A grade of "C" or better in CHEM 2. <i>Course Advisory:</i> ENGL 1 is <i>strongly recommended</i>. A study of quantitative principles including the theory and applications associated with gravimetric, volumetric, and instrumental techniques. Quantitative reasoning, written and verbal communication skills and development of precise laboratory techniques are emphasized. Verbal and written reports and tests, accuracy of laboratory reports, and laboratory skills will be used to evaluate student success. (CAN CHEM 12). <i>Two hours lecture, eight hours lab.</i></p>	<p><b>CHEM 97</b> <span style="float: right;"><b>1-3 Units</b></span></p> <p><b>Special Projects</b>  <i>Prerequisite:</i> CHEM 2 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. <i>Three to nine hours weekly by arrangement.</i></p>
<p><b>CHEM 10</b> <span style="float: right;"><b>4 Units</b></span></p> <p><b>Intermediate Chemistry</b> (F/S)  <i>Prerequisites:</i> A grade of "C" or better in CHEM 160 or two semesters of high school chemistry, <i>and</i> a grade of "C" or better in MATH 104 or two years of high school algebra. <i>NOTE:</i> Not open for credit to students who have completed CHEM 1. <i>Course Advisory:</i> SCC minimum English standard. 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. (CAN CHEM 6) (CHEM 10 &amp; 11 = CAN CHEM SEQ B). <i>Three hours lecture, three hours lab.</i></p>	<p><b>CHEM 160</b> <span style="float: right;"><b>4.0 Units</b></span></p> <p><b>Introductory Chemistry</b> (F/S)  <i>Prerequisite:</i> A grade of "C" or better in any of the following: MATH 104 or two years of high school algebra. <i>NOTE:</i> Not open to students who have completed CHEM 1, CHEM 10, or equivalent. <i>Course Advisory:</i> SCC minimum English standard. An introductory course covering the fundamental principles of inorganic chemistry. <i>Three hours lecture, three hours lab.</i></p>
<p><b>CHEM 11</b> <span style="float: right;"><b>4 Units</b></span></p> <p><b>Basic Organic Chemistry &amp; Biochemistry</b> (F/S)  <i>Prerequisite:</i> A grade of "C" or better in CHEM 10 or CHEM 1. <i>Course Advisory:</i> SCC minimum English standard. Presents an overview of organic chemistry and biochemistry for majors in nursing, home economics, liberal arts and technical fields. (CAN CHEM 8) (CHEM 10 &amp; 11 = CAN CHEM SEQ B). <i>Three hours lecture, three hours lab.</i></p>	<p><b>Special Topics</b>            These courses, numbered 48, 98, 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.</p>
<p><b>CHEM 49H</b> <span style="float: right;"><b>1-3 Units</b></span></p> <p><b>Chemistry Honors</b>  <i>Prerequisites:</i> Eligibility for Honors Program; CHEM 1, CHEM 2, CHEM 3, CHEM 4, CHEM 5, CHEM 10, or CHEM 11 (any of these courses may be taken concurrently). Requires approval of a faculty member sponsor and the Dean of the Math-Science Division. <i>Course Advisory:</i> Eligibility for ENGL 1. Requires students to engage in an independent student project. The project may be a laboratory or library study that leads to a thesis. In all cases, the final written project should show integration and synthesis of ideas. <i>Three to nine hours weekly by arrangement.</i></p>	

# Communication Studies

Fine & Applied Arts/Behavioral Sciences Division

## 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.

## Required Courses

	<b>Units</b>
SPEECH 1—Public Speaking	3
SPEECH 6—Argumentation and Debate	3
SPEECH 10—Interpersonal Communication	3
SPEECH 15—Oral Interpretation	3
SPEECH 60—Business and Professional Communication	3
TV 50—Survey of Broadcasting	3
	<b>18</b>

### Recommended Electives

- ENGL 4
- JOURN 1, 11
- PHLOS 1
- PSYCH 1
- SPEECH 2, 50
- THEA 1
- TV 55

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### SPEECH 1

3 Units

#### Introduction to Public Speaking

*Course Advisory: SCC minimum English standard.* 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; 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. (CAN SPCH 4). *Three hours lecture.*

### SPEECH 1H

3 Units

#### Honors Introduction to Public Speaking

*Prerequisites: Eligibility for the Honors Program. Completion of ENGL 1 with a grade of "B" or higher.* An honors course in public speaking 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; 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. *Three hours lecture.*

# Communication Studies

<b>SPEECH 2</b> <b>Fundamentals of Persuasive Speaking</b> <i>Course Advisory: Eligibility for ENGL 1.</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>	<b>3 Units</b>	<b>SPEECH 49</b> <b>Speech Honors</b> <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 course designed for advanced speech students who wish to continue work with an instructor in a specialized area of oral communication. The student and instructor design an outlined program of study. May be repeated to a maximum of 6 units, including initial enrollment. <i>Six to nine hours weekly by arrangement.</i>	<b>2-3 Units</b>
<b>SPEECH 6</b> <b>Argumentation &amp; Debate</b> <i>Course Advisory: Eligibility for ENGL 1.</i> 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 affirmative and negative 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. (CAN SPCH 6). <i>Three hours lecture.</i>	<b>3 Units</b>	<b>SPEECH 50</b> <b>Forensics/Speech Workshop</b> <i>Course Advisory: SCC minimum English standard.</i> Provides training in the principles of all forms of competitive speaking, oral interpretation and debate, including participation in intercollegiate and competition and appearances before campus and community groups. Students attend intercollegiate forensic tournaments and festivals or speak before campus or community audiences. This is an open entry/open exit course. Repeatable to a maximum of 12 units. <i>One hour lecture, three to six hours lab.</i>	<b>1-3 Units</b>
<b>SPEECH 10</b> <b>Interpersonal Communication</b> <i>Course Advisory: Eligibility for ENGL 1.</i> Communication principles as applied to different interpersonal communication situations including verbal and non-verbal communication, listening, overcoming barriers to communication, and conflict resolution. (CAN SPCH 8). <i>Three hours lecture.</i>	<b>3 Units</b>	<b>SPEECH 60</b> <b>Business and Professional Communication</b> <i>Course Advisory: SCC minimum English standard.</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. 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>	<b>3 Units</b>
<b>SPEECH 15</b> <b>Oral Interpretation of Literature</b> <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>	<b>3 Units</b>		

# Computer and Information Science

Business & Computer Science Division

## 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.

### Required Courses

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

	Units
CIS 1-Intro. to Computer Science	3
BUS 92—Bus. Communications	3
CIS 22—Introduction to Programming	3
CIS 55—MS Windows Operating Systems	3
CIS 23—Data Structures & Algorithms	3
CIS 15—Programming in Visual Basic.NET	3
CIS 89—Essential Networking Technologies	3
CIS 78—Database Management Systems	3
CIS 52—UNIX Operating System	3
CIS 20—Assembly Programming	3
Elective(s) selected from the Recommended Electives	
Electives	3
	33

#### Recommended Electives

CIS 25, 35, 60, 61, 63, 66, 68, 73, 80,  
91.520, 91.570, 95.798, 108  
ACCT 1, 2  
BUS 5  
OCCED 90, 91

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*

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## *Microcomputer Applications*

### Program Description

This option is designed to prepare the student for employment as a microcomputer applications specialist.

### 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 may be obtained by completing a total of 60 units, including the major, general education requirements, and electives.

### Required Courses

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

	Units	
CIS 1—Intro. to Computer Science	3	<b>Recommended Electives</b> CIS 20, 22, 25, 35, 60, 65, 66, 80, 93, 108 ACCT 1, 2 BUS 5 ECTR 158 OCCED 90, 91
CIS 55—MS Windows Operating System	3	
CIS 15—Prog. in Visual Basic.NET	3	
CIS 66—Microsoft Word	3	
CIS 73—Microsoft Excel	3	
CIS 89—Essential Network. Techn.	3	
CIS 78—Database Management Syst.	3	
CIS 90— Intro. to PowerPoint	1.5	
CIS 61—Creating Web Pages	3	
BUS 92—Bus. Communication	3	
CIS 91—Microsoft Outlook	1.5	
	30	

### Job-Direct Certificate Requirements

For each of the following programs, the required courses must be completed with a grade of "C" or better.

#### Microsoft Office Master

	Units
Required Courses	
CIS 66 — Microsoft Word	3
CIS 73 —Microsoft Excel	3
CIS 90 —Introduction to PowerPoint	1.5
CIS 93 —MS Publisher	1.5
	9

#### Database Specialist

	Units
Required Courses	
CIS 78—Database Management Systems	3
CIS 80—Advanced Database Management Systems	3
CIS 72—Extensible Markup Language (XML)	1.5
	7.5

#### Microsoft Office Specialist

	Units
Required Courses	
CIS 66 — Microsoft Word	3
CIS 73 —Microsoft Excel	3
CIS 78 —Database Management Systems	3
CIS 90 —Introduction to PowerPoint	1.5
CIS 91 —Microsoft Outlook	1.5
CIS 93 —MS Publisher	1.5
	13.5

# 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.

### Required Courses

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

	Units	Recommended Electives
CIS 1—Intro. to Computer Science	3	CIS 15, 22, 23, 35, 68, 78, 108
CIS 61—Creating Web Pages	3	
CIS 62—Creating Web Interactivity with Flash	3	
CIS 69—Multimedia for the Web	3	
CIS 72—XML	1.5	
CIS 75—Client Side Programming	3	
CIS 80—Adv Database Management Systems	3	
CIS 81—Server Side Programming	3	
CIS 83—Web Server Administration	3	
CIS 89—Essential Networking Technologies	3	
CIS 111—Cascading Style Sheets	1.5	
Elective(s) selected from the Recommended Electives	3	
	33	

### Job-Direct Certificate Requirements

For each of the following programs, the required courses must be completed with a grade of "C" or better.

#### Computer Applications Specialist

Required Courses	Units
BUS 100—Work Readiness	1.5
CIS 73 —Microsoft Excel	3
CIS 66—Microsoft Word	
OR	
CIS 63—WordPerfect	3
CIS 78 —Database Management Systems	3
	10.5

#### Home-Based Computer Processor

Required Courses	Units
BUS 100—Work Readiness	1.5
CIS 73 —Microsoft Excel	3
CIS 66—Microsoft Word	
OR	
CIS 63—WordPerfect	3
OT 100—Skillbuilding/Computer Keyboard	1
BUS 201—Starting and Managing a Small Bus.	.5
BUS 210—Record Keeping for Small Bus.	.5
BUS 209 —Establishing Home-based Bus.	.5
	10

#### Web Developer

Required Courses	Units
CIS 1—Intro. to Computer Science	3
CIS 61—Creating Web Pages	3
CIS 69—Multimedia for the Web	3
CIS 72—XML	1.5
CIS 75—Client Side Programming	3
CIS 81—Server Side Programming	3
	16.5

#### Web Programmer

Required Courses	Units
CIS 15—Programming in Visual Basic.NET	3
CIS 35 —Introduction to Java Programming	3
CIS 75—Client Side Web Programming	3
CIS 81—Server Side Web Programming	3
CIS 68—Object Oriented Game Programming with Flash	3
	15

# Computer and Information Science

<b>CIS 1</b>	<b>3 Units</b>	<b>CIS 23</b>	<b>3 Units</b>
<b>Introduction to Computer Science</b> <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. (CAN BUS 6). <i>Three hours lecture, one hour lab weekly by arrangement.</i>		<b>Data Structures and Algorithms</b> <i>Prerequisites: CIS 22 with a grade of "C" or "CR" or better. Course Advisories: SCC minimum English and math standards.</i> 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. (Currently taught in C/C++ language.) <i>Three hours lecture, one hour lab weekly by arrangement.</i>	
<b>CIS 15</b>	<b>3 Units</b>	<b>CIS 25</b>	<b>3 Units</b>
<b>Programming in Visual Basic.NET</b> <i>Course Advisories: CIS 1 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>		<b>FORTRAN Programming</b> <i>Prerequisite: CIS 1 with a grade of "C" or "CR" or better.</i> 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 (CAN CSCI 4). <i>Three hours lecture, one hour lab weekly by arrangement.</i>	
<b>CIS 20</b>	<b>3 Units</b>	<b>CIS 35</b>	<b>3 Units</b>
<b>Assembly Programming</b> <i>Prerequisites: CIS 10 or 15 or 22 or 35 with a grade of "C" or "CR" or better. Course Advisories: SCC minimum English and math standards.</i> A hardware-oriented programming course dealing with programming a computer at the assembly language level. Emphasis will be on the assembly language of computers. (CAN CSCI 10). <i>Three hours lecture, one hour lab weekly by arrangement.</i>		<b>Introduction to Java Programming</b> <i>Prerequisites: CIS 22 or CIS 23 or 15 with a grade of "C" or better. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	
<b>CIS 22</b>	<b>3 Units</b>	<b>CIS 49</b>	<b>1-3 Units</b>
<b>Introduction to Programming</b> <i>Prerequisites: CIS 1 with a grade of "C" or "CR" or better. Course Advisories: SCC minimum English and math standards.</i> 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. (Currently taught in C/C++ language.). <i>Three hours lecture, one hour lab weekly by arrangement.</i>		<b>Computer and Information Science Honors</b> <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. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three to nine hours weekly by arrangement.</i>	

# Computer and Information Science

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<b>CIS 50</b> <b>Microcomputer Applications</b> <i>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 1. 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 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.</i>	<b>3 Units</b>	<b>CIS 60</b> <b>Introduction to the Internet</b> <i>Course Advisories: SCC minimum English and math standards. Designed to prepare students to use the Internet, a world wide computer network. Emphasis is on introducing features of the Internet, including electronic mail, the World Wide Web, Gopher, FTP (file transfer protocol), Telnet, and Usenet, as well as other Internet services and utilities. Students will explore hands-on the vast resources of the Internet, learn to access information using a variety of methods, and will construct a simple Web page. Three hours lecture, one hour lab weekly by arrangement. (8 week course).</i>	<b>1.5 Units</b>
<b>CIS 52</b> <b>UNIX Operating System</b> <i>Course Advisories: CIS 55 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.</i>	<b>3 Units</b>	<b>CIS 61</b> <b>Creating Web Pages</b> <i>Course Advisories: CIS 1; SCC minimum English and math standards. This course is designed to prepare students to develop web sites that interact with databases. Emphasis is on the creation of Web sites with interactive Web pages, data access Web pages, and web pages with interactive components. Students will explore hands-on access to the Internet and an HTML editor to create and maintain Web sites. Three hours lecture, one hour lab weekly by arrangement.</i>	<b>3 Units</b>
<b>CIS 55</b> <b>MS Windows Operating Systems</b> <i>Course Advisories: CIS 1 with a grade of "C" or "CR" or better; basic keyboarding skills. Students will learn how to use the Graphical User Interface (GUI) and the command line interface in carrying out system tasks in the MS Windows operating systems. Topics include file management, hard disk management, system tools, batch files, connectivity, and the registry. Three hours lecture, one hour lab weekly by arrangement.</i>	<b>3 Units</b>	<b>CIS 62</b> <b>Creating Web Interactivity with Flash</b> <i>Course Advisories: CIS 1 with a grade of "C" or "CR" or better; CIS 61 with a grade of "C" or "CR" or better ; SCC minimum English and math standards. This course covers the creation of vector-based graphics, animation, and interactivity within the Web environment. Emphasis will be placed on applying design principles to the elements of motion and interactivity. The basic operating principles of Macromedia Flash will be applied in order to create Web sites with animation, interactive buttons, and sound. Issues of optimal delivery and web accessibility will also be covered. A portfolio-quality professional level capstone project will be developed and presented. Three hours lecture, one hour lab weekly by arrangement.</i>	<b>3 Units</b>
<b>CIS 57</b> <b>Introduction to Microsoft Windows</b> <i>Course Advisories: CIS 1 with a grade of "C" or "CR" or better; ability to keyboard at 30 wpm. 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. Three hours lecture, one hour lab weekly by arrangement. (8 week course).</i>	<b>1.5 Units</b>	<b>CIS 63</b> <b>WordPerfect</b> <i>Course Advisories: CIS 1 with a grade of "C" or "CR" or better; ability to keyboard at 30 wpm. 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. Three hours lecture, one hour lab weekly by arrangement.</i>	<b>3 Units</b>

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CIS 66

3 Units

## Microsoft Word

*Course Advisories: CIS 1 or CIS 50 with a grade of "C" or "CR" or better; ability to keyboard at 30 wpm.* Provides an in-depth study of the functions of the word processing program. Students will learn how to use basic and advanced program features to create and design business documents. *Three hours lecture, one hour lab weekly by arrangement.*

CIS 68

3 Units

## Object Oriented Game Programming with Flash

*Prerequisite: CIS 62 with a grade of "C" or better.*  
*Course Advisories: CIS 1 with a grade of "C" or "CR" or better; SCC minimum English and math standards.* Using solid programming techniques and the fundamental concepts of Object Oriented Programming, students will use Macromedia Flash ActionScript to create multimedia games. This process includes designing, coding, testing, debugging and documenting Flash ActionScript programs. Additionally, students will apply these concepts to the creation of game programs that utilize digital media including images, animation, audio, video, and text. *Three hours lecture, one hour lab weekly by arrangement.*

CIS 69

3 Units

## Multimedia for the Web

*Course Advisories: CIS 1 with a grade of "C" or better; CIS 61 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 72

1.5 Units

## Extensible Markup Language (XML)

*Course Advisories: CIS 1 with a grade of "C" or better; CIS 61 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 73

3 Units

## Microsoft Excel

*Course Advisories: CIS 1 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 75

3 Units

## Client-Side Web Programming

*Course Advisories: CIS 1 with a grade of "C" or better; CIS 61 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 78

3 Units

## Database Management Systems

*Course Advisories: CIS 1 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.*

# Computer and Information Science

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<b>CIS 80</b> <b>Advanced Database Management Systems</b> <i>Course Advisories: CIS 78 with a grade of “C” or “CR” or better; SCC minimum English and math standards.</i> 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 2000 is the database system currently used for this course. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	<b>3 Units</b>	<b>CIS 90</b> <b>Introduction to PowerPoint</b> <i>Course Advisories: CIS 1 or CIS 50 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>	<b>1.5 Units</b>
<b>CIS 81</b> <b>Server-Side Web Programming</b> <i>Course Advisories: CIS 1 with a grade of “C” or better; CIS 61 with a grade of “C” or better; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	<b>3 Units</b>	<b>CIS 91</b> <b>Microsoft Outlook</b> <i>Course Advisories: SCC minimum English standard, CIS 1 or CIS 50 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>	<b>1.5 Units</b>
<b>CIS 83</b> <b>Web Server Administration</b> <i>Course Advisories: CIS 1 with a grade of “C” or better; CIS 61 with a grade of “C” or better; SCC minimum English and math standards.</i> 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. <i>Three hours lecture, one hour lab weekly by arrangement.</i>	<b>3 Units</b>	<b>CIS 93</b> <b>MS Publisher</b> <i>Course Advisories: CIS 1 or CIS 50 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>	<b>1.5 Units</b>
<b>CIS 89</b> <b>Essential Networking Technologies</b> <i>Course Advisories: CIS 1 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>	<b>3 Units</b>	<b>CIS 100</b> <b>Fast Track Introduction to Computers</b> <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>	<b>.5 Units</b>
		<b>CIS 101</b> <b>Fast Track Windows</b> <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>	<b>.5 Units</b>

# Computer and Information Science

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**CIS 102**

**.5 Units**

**Fast Track Microsoft Word**

*Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.* Designed to introduce to students the most elementary functions of Microsoft Word. This is a credit/no credit only course. *Eight hours lecture. (1 week course).*

**CIS 103**

**.5 Units**

**Fast Track Internet**

*Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.* Designed to introduce the student to the most elementary features of working on the Internet. This is a credit/no credit only course. *Eight hours lecture. (1 week course).*

**CIS 104**

**.5 Units**

**Fast Track PowerPoint**

*Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.* Designed to introduce the student to the most elementary functions of Microsoft PowerPoint. This is a credit/no credit only course. *Eight hours lecture. (1 week course).*

**CIS 105**

**.5 Units**

**Fast Track Excel**

*Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.* Designed to introduce the student to the most elementary functions of Excel. This is a credit/no credit only course. *Eight hours lecture. (1 week course).*

**CIS 106**

**.5 Units**

**Fast Track Computer Literacy**

*Course Advisories: SCC minimum English and math standards.* 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. *One hour lecture, one hour weekly by arrangement. (8 week course).*

**CIS 107**

**.5 Units**

**Fast Track Outlook**

*Course Advisories: SCC minimum English and math standards.* 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).*

**CIS 108**

**.5 Units**

**Fast Track WordPerfect**

*Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.* Designed to introduce to students the most elementary functions of WordPerfect. This is a credit/no credit only course. *Eight hours lecture. (1 week course).*

**CIS 109**

**.5 Units**

**Fast Track Quicken for Windows**

*Course Advisories: SCC minimum English and math standards; previous computer experience; keyboarding at 30wpm.* Designed to introduce the student to the most elementary functions of Quicken for Windows 2005. This is a credit/no credit only course. *Eight hours lecture. (1 week course).*

**CIS 110**

**1.5 Units**

**Wireless LANs**

*Course Advisories: CIS 1 with a grade of "C" or "CR" or better; SCC minimum English and math standards.* This course is designed to instruct students on planning, designing, installing and configuring wireless LANs. The course offers in-depth coverage of wireless networks with extensive step-by-step coverage of IEEE 802.11b/a/g/pre-n implementation, design, security, and troubleshooting. *Three hours lecture, one hour lab weekly. (8 week course).*

**CIS 111**

**1.5 Units**

**Web Design with Cascading Style Sheets**

*Course Advisories: CIS 61 with a grade of "C" or "CR" or better; SCC minimum English and math standards.* This course is intended for students and Web Professionals who have a working knowledge of Web design and HTML and want to use cascading style sheets to control the display and formatting on a Web site or any other application that uses CSS. *Three hours lecture, one hour lab weekly by arrangement. (8 week course).*

**CIS 115 (formerly CIS 10)**

**3 Units**

**COBOL Programming**

*Prerequisites: CIS 22 with a grade of "C" or "CR" or better or CIS 15 with a grade of "C" or "CR" or better. Course Advisories: SCC minimum English and math standards.* 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. *Three hours lecture, one hour lab weekly by arrangement.*

# *Computer and Information Science*

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**CIS 119**

**3 Units**

## **Project Management**

*Prerequisites: CIS 1 or CIS 50 and BUS 5. Course Advisories: ECON 2, ACCT 2, CIS 91, BUS 92; 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.*

## **Special Topics**

These courses, numbered 48, 98, 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.

## 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 and Associate in Science Degree

A certificate can be obtained by completing the 45-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 45 units and the general education requirements.

## Required Courses

	Units
COSME 100—Cosmetology I	15
COSME 101—Cosmetology II	15
COSME 102—Cosmetology III	15
	45

### Recommended Electives:

COSME 103, 104A, 104B, 111, 112, 113,  
114, 115, 116, 117, 118A, 118B, 171, 172,  
173, 174, 175  
OCCED 90, 91

## Job-Direct Certificate Requirements

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

### Nail Technician

Required Courses	Units
COSME 171—Manicure Practices	3
COSME 172 —Pedicure Practices	3
COSME 173—Artificial Nails	3
COSME 174—Nail Systems	3
	12

*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. 389.*

### **COSME 100** **15 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. Students are required to purchase an equipment kit and materials card from the SCC College Bookstore. 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 17 years of age. Not open to students who have received credit for COSME 150 or 151. *Five hours lecture, thirty hours lab.*

# Cosmetology

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## COSME 101

15 Units

### Cosmetology II

*Prerequisites:* COSME 100 or COSME 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. Students are required to purchase a materials card from the SCC college bookstore. *Five hours lecture, thirty hours lab.*

skills needed for a profession in esthetics. 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). *Five hours lecture, thirty hours lab.*

## COSME 102

15 Units

### Cosmetology III

*Prerequisite:* COSME 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. Students are required to purchase a materials card from the SCC college bookstore. *Five hours lecture, thirty hours lab.*

## COSME 104B

1-4 Units

### Esthetics of 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. *A total of fifty lab hours per semester per unit.*

## COSME 103

1-4 Units

### Cosmetology IV

*Prerequisite:* COSME 100. *NOTE:* Not open to students who have completed COSME 175. *Course Advisory:* SCC minimum English standard. Designed to meet the needs of students who have not completed the required 1600 hours and need additional training. May be repeated to a maximum of 4 units, including initial enrollment. *One hour lecture, six hours lab daily.*

## COSME 110

1-3.5 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. *Four hours lecture, eighteen hours lab (6 week course).*

## COSME 104A

15 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

## COSME 111

2 Units

### Special Hair Processes

*Prerequisite:* Current California State Cosmetology License or COSME 100 (COSME 100 may be taken concurrently). *Course Advisory:* SCC minimum English standard. Theory and practice in the thermal and chemical processes used in the curling, straightening and waving of hair. *One hour lecture, three hours lab.*

## COSME 112

2 Units

### Basic Hairstyling

*Prerequisite:* Current California State Cosmetology License or completion of COSME 100. *Course Advisory:* SCC minimum English standard. 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. *One hour lecture, three hours lab.*

## COSME 113

2 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. *One hour lecture, three hours lab.*

<b>COSME 114</b>	<b>15 Units</b>	<b>COSME 117</b>	<b>15 Units</b>
<b>Brush-up and/or Supplemental Training</b> <i>Prerequisite: Completion of COSME 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. Five hours lecture, thirty hours lab.</i>		<b>Special Manicurist</b> <i>Prerequisite: None. NOTE: Not open to students who have completed COSME 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. Students are required to purchase an equipment kit and materials card from the SCC Bookstore. Students are required to attend the Cosmetology Department 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.</i>	
<b>COSME 115</b>	<b>13 Units</b>	<b>COSME 118A</b>	<b>2 Units</b>
<b>Cosmetology Instructor Training I</b> <i>Prerequisites: Current California Cosmetologist's license and completion of COSME 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 Cosme 102 or 114 within the last five years to be eligible for instructors licensing test. Five hours lecture, twenty-four hours lab.</i>		<b>Imaging System I</b> <i>Prerequisite: Successful completion of COSME 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. One hour lecture, three hours lab.</i>	
<b>COSME 116</b>	<b>8 Units</b>	<b>COSME 118B</b>	<b>2 Units</b>
<b>Cosmetology Instructor Training II</b> <i>Prerequisite: COSME 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. Two hours lecture, eighteen hours lab.</i>		<b>Imaging System II</b> <i>Prerequisite: COSME 118A. Presents the theory and use of computerized imaging systems, including the study of client consultation principles, color analysis, make-up application, hair styling options and the opportunity for the students to use the Image System's Computer for creating graphic images. One hour lecture, three hours lab.</i>	
		<b>COSME 150</b>	<b>7.5 Units</b>
		<b>Basic Concepts in Cosmetology</b> <i>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 COSME 100. Not open to students who have received credit for COSME 100. Five hours lecture, thirty hours lab (9 week course).</i>	

# Cosmetology

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## COSME 151

7.5 Units

### Basic Concepts in Cosmetology

*Prerequisite: COSME 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 COSME 100. Not open to students who have received credit for COSME 100. *Five hours lecture, thirty hours lab (9 week course).*

## COSME 171

3 Units

### Manicure Practices

*Prerequisite: None. NOTE: Not open to students who have completed COSME 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. Students are required to purchase mandatory books, equipment kit, and materials card at the College Bookstore before the second class meeting. *Five hours lecture, fifteen hours lab (5 week course).*

## COSME 172

3 Units

### Pedicure Practices

*Prerequisite: None. NOTE: Not open to students who have received credit for COSME 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. Students are required to purchase mandatory books, equipment kit, and materials card at the college bookstore by the second call meeting. **NOTE:** Not open to students who have received credit for COSME 117. *Five hours lecture, fifteen hours lab (5 week course).*

## COSME 173

3 Units

### Artificial Nails

*Prerequisite: None. NOTE: Not open to students who have received credit for COSME 117. 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. Students are required to purchase mandatory books, equipment kit, and materials card at the college bookstore by the second class meeting. *Five hours lecture and fifteen hours lab (5 week course).*

## COSME 174

3 Units

### Nail Systems

*Prerequisite: None. NOTE: Not open to students who have received credit for COSME 117. 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. Students are required to purchase mandatory books, equipment kit, and materials card at the college bookstore by the second call meeting. *Five hours lecture and fifteen hours lab (5 week course).*

## COSME 175

.5-2 Units

### Cosmetology Education Practicum

*Prerequisites: COSME 100, or 101, or 102, or 104A, or 104B, or 117, or 171, or 172, or 173, or 174. NOTE: Not open to students who have completed COSME 103. Course Advisory: SCC minimum English standard.* Provides the application of theoretical skills to increase performance proficiencies and accrue the 400 hours as mandated by the State Board of Barbering and Cosmetology. Those individuals who do not meet the minimum number of hours for licensure are to enroll according to the following scale:  
50 hours = 0.5 units; 100 hours = 1.0 units;  
150 hours = 1.5 unit; 200 hours = 2.0 units. Students are required to have the mandatory books and equipment kit by the first class meeting. *Three to twelve and one half hours lab (5 week course).*

### Special Topics

These topics, numbered 148 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.

## Program Description

These courses are designed to assist students in making a 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.

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## Counseling

COUN 7

2 Units

### College Study Techniques

*Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard.* Designed to enhance existing study skills through the exploration and application of learning strategies in areas such as time management, notetaking, textbook reading, memory, and test-taking. The impact of student attitudes, motivation, and learning style on college success will also be examined. Students will be required to purchase a current Solano College catalog. *Two hours lecture.*

COUN 50

3 Units

### Career-Life Planning

*Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard.* A career planning and development course designed to assist students with personal assessment, career exploration and job seeking skills. In the context of studying the changes that occur during a typical life span, each student will construct a personal profile of current and projected interests, aptitudes, skills, main attitude, goals, personality, life choices and personal circumstances. 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 55

3 Units

### Valuing Diversity

*Course Advisories: Eligibility for ENGL 1 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 58

3 Units

### Life Management

See Human Development 58.

COUN 60

2 Units

### Strategies for Re-entry Success

*Course Advisory: SCC minimum English standard.* Designed to give students who are returning to school after some 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; assessment of campus, family, personal and financial resources; and an 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, one hour activity.*

COUN 61

2 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. *Three hours lecture.*

COUN 62

3 Units

### Helping Skills: Creating Alliances and Facilitating Change

*Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard.* Introduction to the basic helping skills that enable the student to build on 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 with a special emphasis on chemical dependency and depression. 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

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<b>COUN 63</b> <b>Field Work</b> <i>Prerequisite: COUN 62. Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard; HS 55 (or concurrent enrollment)(for Human Services Majors only).</i> 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. <i>Two hours lecture and four to twelve hours weekly by arrangement.</i>	<b>3-6 Units</b>	<b>COUN 101</b> <b>Orientation for College Success</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Two hours lecture (4 week course).</i>	<b>.5 Unit</b>
<b>COUN 68</b> <b>University Transfer Success</b> <i>Course Advisories: SCC minimum English and math standards.</i> A comprehensive study and analysis of the process of transferring from a community college to a 4-year college or university. The course presents an overview of the purposes of higher education, transfer strategies, detailed transfer requirements, transfer information resources, student support services, transitional issues, and the college application process. <i>Four hours lecture (8 week course).</i>	<b>2 Unit</b>	<b>COUN 102A</b> <b>Time Management &amp; Goal Setting</b> <i>Prerequisite: None. NOTE: Not open for credit to students who have completed COUN 7 with a grade of "C" or better. Course Advisories: SCC minimum English and math standards.</i> Introduces time management concepts and techniques such as goal-setting, organizing, prioritizing and scheduling and emphasizes their practice and application to assist students to achieve their educational and career goals. Other COUN 102 courses may be taken concurrently with this course. <i>One hour lecture, three hours lab (4 week course).</i>	<b>.5 Unit</b>
<b>COUN 71</b> <b>Student Athlete Academic Success Strategies</b> <i>Course Advisory: SCC minimum English and math standards.</i> Designed for the student athlete which addresses both the study skills necessary to succeed academically and the complex athletic eligibility requirements (COA/NCAA/NAIA) that govern present and future athletic competition. <i>Three hours lecture (6 week course).</i>	<b>1 Unit</b>	<b>COUN 102B</b> <b>Learning Styles and Life Skills</b> <i>Prerequisite: None. NOTE: Not open for credit to students who have completed COUN 7 with a grade of "C" or better. Course Advisories: SCC minimum English and math standards.</i> Introduces concepts and strategies of learning styles, self-esteem, managing emotion and overcoming barriers to learning. Emphasis is placed on practice and application to assist students to achieve their educational and career goals. Other COUN 102 courses may be taken concurrently with this course. <i>One hour lecture, three hours lab (4 week course).</i>	<b>.5 Unit</b>
<b>COUN 83</b> <b>Applied Psychology</b> <i>Course Advisories: SCC minimum English and math standards.</i> Applied approach to understanding the fundamental concepts of psychology as they relate to daily life. Topics include examining the methods of psychology, perception, behavior, memory, problem solving, development, motivation, emotions, adjustment, problem behavior, lifestyle, communication, and attitudes. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>COUN 102C</b> <b>Test Taking, Test Anxiety &amp; Memory</b> <i>Prerequisite: None. NOTE: Not open for credit to students who have completed COUN 7 with a grade of "C" or better. Course Advisories: SCC minimum English and math standards.</i> Introduces test taking, test anxiety and memory concepts and techniques and emphasizes their practice and application to assist students to achieve their educational and career goals. Other COUN 102 courses may be taken concurrently with this course. <i>One hour lecture, three hours lab (4 week course).</i>	<b>.5 Unit</b>

## COUN 102D

.5 Unit

### Study Systems

*Prerequisite: None. NOTE: Not open for credit to students who have completed COUN 7 with a grade of "C" or better. Course Advisories: SCC minimum English and math standards.* Introduces note-taking, reading and study environment concepts and strategies and emphasizes their practice and application to assist students to achieve their educational and career goals. Other COUN 102 courses may be taken concurrently with this course. *One hour lecture, three hours lab (4 week course).*

## COUN 510

Non-Credit Only

### Matriculation Assessment/Orientation

In a three-hour time frame, students will take a skills test in writing and reading, will be provided the results of that test, will be provided a preliminary indication of their English and math placement, and will be provided with a brief overview of the programs, services, policies, and procedures of Solano College. *A total of three hours by arrangement.*

### Special Topics

These courses, number 48, 98 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

3.5 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 301A

1 Units

### General Learning 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. It focuses on general learning strategies that help students customize test taking, note taking, time management, planning and organization to their specific educational limitations. This is a credit/no-credit only course. *Two hours lecture, one hour activity (8 week course).*

## LS 301B

1 Units

### 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 credit/no-credit only course. *Two hours lecture, one hour activity (8 week course).*

## LS 301C

1 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 credit/no-credit only course. *Two hours lecture, one hour activity (8 week course).*

## LS 301D

1 Unit

### Math Concepts and Strategies

*Course advisory: SCC minimum English and math standards.* This course is one in a series of four that helps students with cognitive processing disabilities. This course focuses on the conceptual framework of mathematics through manipulation of tactual, visual, auditory aids, skills/drill competence, and computer-assisted instruction. Embedded within the material are learning strategies dealing with all math courses. This is a credit/no-credit only course. *Two hours lecture, one hour activity (8 week course).*

# Counseling

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LS 306A

3 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 credit/no-credit only course. Repeatable 1 time NOTE: Combined enrollments in LS 306A and LS 306B may not exceed 3. *Three hours lecture.*

LS 306B

3 Units

## Spelling Strategies

*Prerequisite: LS 306A.* 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. Continues with additional morphograph analysis, new rule applications, and concentration on compensatory strategies, greater emphasis on written application. This is a credit/no-credit only course. Repeatable 1 time NOTE: Combined enrollments in LS 306A and LS 306B may not exceed 3. *Three hours lecture.*

LS 312

1 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 credit/no-credit 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 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 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).*

## Special Topics

These courses, numbered 148 or 348, are designed to help students with specific learning disabilities and/or skills deficiencies. Announcements of Special Topic courses will appear in the Schedule of Classes.

# Tutoring

TUTOR 50

.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).*

TUTOR 500

Non-Credit Only

## 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, 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.

### Required Courses

	Units	Select six (6) units from the following:	Units
CRIMJ 1—Intro. to Crim. Justice	3		
CRIMJ 2—Concepts of Criminal Law	3		
CRIMJ 11—Community Relations	3		
CRIMJ 51—Criminal Investigation	3	CRIMJ 57—Crim. Justice Career Dev.	3
CRIMJ 52—Investigative Report Writing	3	CRIMJ 60—Probation and Parole	3
CRIMJ 53—Legal Aspects of Evidence	3	CRIMJ 61—State & Local Correct. Inst.	3
CRIMJ 58—Fund. of Crime & Delinquency	3	CRIMJ 62—Legal Aspects of Corr.	3
CRIMJ 59—Interviewing & Counseling	3	CRIMJ 91—Voc. Work Experience: Correct.	1-3
Electives selected from the following list	6		
	30	<b>Recommended Electives</b>	
		CIS 2 & 50	
		ENGL 4, 51	
		OCCE 90, 91	
		OT 54, 55	
		SOCSC 22	
		SPAN 1, 2	

## 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.

# Criminal Justice

## Criminal Justice, Law Enforcement (continued)

### Required Courses

	Units		Units
CRIMJ 1—Intro. to Crim. Justice	3	<b>Select six units (continued)</b>	
CRIMJ 2—Concepts of Criminal Law	3	CRIMJ 57—Criminal Justice Career Dev.	3
CRIMJ 11—Community Relations	3	CRIMJ 64—Prin. & Procedures/C J System	3
CRIMJ 51—Criminal Investigation	3	CRIMJ 90—Voc. Work Exper: Law Enforcement	1-3
CRIMJ 52—Investigative Report Writing	3	CRIMJ 109—Defensive Tactics	1
CRIMJ 53—Legal Aspects of Evidence	3	CRIMJ 110—Firearms	1
CRIMJ 58—Fundamentals of Crime and Delinquency	3		
CRIMJ 59—Interviewing & Counseling	3	<b>Recommended Electives</b>	
Electives selected from the following list	6	CIS 2 & 50	
	30	ENGL 4, 51	
		OCCED 90, 91	
<b>Select six (6) units from the following:</b>		OT 54, 55	
CRIMJ 50—Substantive Law	3	SOCSC 22	
CRIMJ 54—Patrol Procedures	3	SPAN 1, 2	
CRIMJ 55—Traffic Control	3		
CRIMJ 56—Juvenile Procedures	3		

### CRIMJ 1 3 Units

#### Introduction to Criminal Justice

*Course Advisories: SCC minimum English and math standards.* An overview of informal and formal means of social control; 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); the history of the U. S. Constitution and application of constitutional principles; theories of crime causation and criminal behavior; professional ethics; education and training for professionalism in the criminal justice system. Required for all Criminal Justice majors. (CAN AJ 2). *Three hours lecture.*

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. *Three hours lecture.*

### CRIMJ 50 3 Units

#### Substantive Law

*Prerequisite: CRIMJ 2. Course Advisories: SCC minimum English and math standards.* 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. *Three hours lecture.*

### CRIMJ 2 3 Units

#### Concepts of Criminal Law

*Prerequisite: CRIMJ 1 (may be taken concurrently).* *Course Advisories: SCC minimum English and math standards.* 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. (CAN AJ 4). *Three hours lecture.*

### CRIMJ 51 3 Units

#### Criminal Investigation

*Prerequisite: CRIMJ 1 (may be taken concurrently).* *Course Advisories: SCC minimum English and math standards.* Fundamentals of investigation, crime scene search and recording, collection and preservation of evidence, scientific aid; interviews and interrogation, follow-up and case preparation. (CAN AJ 8). *Three hours lecture.*

### CRIMJ 11 3 Units

#### Community Relations

*Prerequisite: CRIMJ 1 (may be taken concurrently).* *Course Advisories: SCC minimum English and math standards.* 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

### CRIMJ 52 3 Units

#### Investigative Report Writing

*Prerequisite: CRIMJ 1 (may be taken concurrently).* *Course Advisory: SCC minimum English standard.* 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. Repeatable 1 time. *Three hours lecture.*

# Criminal Justice

<b>CRIMJ 53</b>	<b>3 Units</b>	and after-care process of sentence, probation, prisons, and parole; changes of the law in crime control and treatment processes. <i>Three hours lecture.</i>
<b>Legal Aspects of Evidence</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</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. (CAN AJ 6). <i>Three hours lecture.</i>		
<b>CRIMJ 54</b>	<b>3 Units</b>	
<b>Patrol Procedures</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i>		
Presents the responsibilities, techniques and methods of modern police patrol. <i>Three hours lecture.</i>		
<b>CRIMJ 55</b>	<b>3 Units</b>	
<b>Traffic Control</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</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>		
<b>CRIMJ 56</b>	<b>3 Units</b>	
<b>Juvenile Procedures</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</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>		
<b>CRIMJ 57</b>	<b>3 Units</b>	
<b>Criminal Justice Career Development</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</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>		
<b>CRIMJ 58</b>	<b>3 Units</b>	
<b>Fundamentals of Crime and Delinquency</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i>		
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		
<b>CRIMJ 59</b>	<b>3 Units</b>	
<b>Interviewing and Counseling</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i>		
Overview of the interviewing and counseling techniques available to practitioners in law enforcement, the courts, and corrections emphasizing communication and practical skills. <i>Three hours lecture.</i>		
<b>CRIMJ 60</b>	<b>3 Units</b>	
<b>Probation and Parole</b>		
<i>Prerequisite: CRIMJ 58. Course Advisories: SCC minimum English and math standards.</i>		
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. <i>Three hours lecture.</i>		
<b>CRIMJ 61</b>	<b>3 Units</b>	
<b>State and Local Correctional Institutions</b>		
<i>Prerequisite: CRIMJ 58. Course Advisories: SCC minimum English and math standards.</i>		
Provides theoretical and practical methods and solutions for achieving effectiveness in the various leadership correctional institutional programs. <i>Three hours lecture.</i>		
<b>CRIMJ 62</b>	<b>3 Units</b>	
<b>Legal Aspects of Correction</b>		
<i>Prerequisite: CRIMJ 58. Course Advisories: SCC minimum English and math standards.</i>		
Presents the legal aspects of corrections and code provisions relative to all phases of the correctional system. <i>Three hours lecture.</i>		
<b>CRIMJ 64</b>	<b>3 Units</b>	
<b>Principles and Procedures of the Criminal Justice System</b>		
<i>Prerequisite: CRIMJ 1 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i>		
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. <i>Three hours lecture.</i>		

# Criminal Justice

<b>CRIMJ 90</b>	<b>1-3 Units</b>	<b>CRIMJ 202</b>	<b>3 Units</b>
<b>Vocational Work Experience: Law Enforcement</b> <i>Prerequisite: CRIMJ 1 (may be taken concurrently).</i> Volunteer service in a variety of governmental and private criminal justice agencies related to Law Enforcement. Maximum of 3 units per semester may be earned. Students will serve 90 hours per unit of credit. 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. <i>One hour lecture and five to twenty hours weekly by arrangement.</i>		<b>Reserve Officer Training: Backup Officer, Part 1</b> <i>Course Advisories: SCC minimum English and math standards.</i> Designed to qualify student for Police Reserve Officer LEVEL II when CRIMJ 203 is completed. Consists of training in first aid and cardiopulmonary resuscitation, the role of the backup officer, officer survival, weaponless defense and baton, traffic control, crime scene procedures, crowd control, booking procedures, community relations, radio and telephone communications. Student must earn a "C" or better to qualify for Level II. <i>Three hours lecture.</i>	
<b>CRIMJ 91</b>	<b>1-3 Units</b>	<b>CRIMJ 203</b>	<b>1.5 Units</b>
<b>Vocational Work Experience: Corrections</b> <i>Prerequisite: CRIMJ 1 (may be taken concurrently).</i> Volunteer service in a variety of governmental and private criminal justice agencies related to Corrections. Maximum of 3 units per semester may be earned. Students will serve 90 hours per unit of credit. 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. <i>One hour lecture and five to twenty hours weekly by arrangement.</i>		<b>Reserve Officer Training: Backup Officer, Part 2</b> <i>Course Advisories: SCC minimum English and math standards.</i> Designed to qualify students for Police Reserve Officer LEVEL II when Criminal Justice 203 is completed. Consists of lectures, demonstrations, practical application in driver awareness, first aid and cardiopulmonary resuscitation, the use of force and weaponry, custody and physical fitness and defensive tactics. Students must earn a "C" or better to qualify for Level II. <i>One hour lecture, two hours lab.</i>	
<b>CRIMJ 109</b>	<b>1 Unit</b>	<b>CRIMJ 240</b>	<b>4 Units</b>
<b>Defensive Tactics</b> <i>Prerequisite: CRIMJ 1 (may be taken concurrently).</i> <i>Course Advisories: SCC minimum English and math standards.</i> Presents the methods of personal protection against persons armed with deadly weapons; demonstrations and exercises in limited number of holds, take-downs and physical control, the use of come-alongs and handcuffs, as well as physical control of prisoners and the mentally ill. Also a fundamental use and explanation of striking weapons. <i>One hour lecture.</i>		<b>Correctional Officer Examination Training</b> <i>Course Advisory: SCC minimum English standard.</i> Designed to prepare the student to successfully compete in the continuously offered California Department of Corrections (CDC) Correctional Officer examination. The course presents formal practical training to assist the student in passing the written test, the medical/physical examination, the oral interview, and the background investigation. Students will be required to sign a waiver of privacy form in order to enter and tour a CDC adult institution. Upon successful completion of the course, appointments will be scheduled with the CDC testing center to take the Correctional Officer examination. Repeatable 3 times. <i>Four hours lecture.</i>	
<b>CRIMJ 110</b>	<b>1 Unit</b>	<b>CRIMJ 500</b>	<b>Non-Credit</b>
<b>Firearms</b> <i>Prerequisite: CRIMJ 1 (may be taken concurrently).</i> <i>Course Advisories: SCC minimum English and math standards.</i> Describes moral aspects, legal provisions, safety precautions and restrictions covering the use of firearms; includes use of handguns and shotguns. <i>One hour lecture.</i>		<b>California Highway Patrol Supervision Examination Training</b> Provides current information about California Highway Patrol departmental policy, California Vehicle Code, Penal Code, Health and Safety Code, and criminal and procedural laws to prepare students for the written California Highway Patrol Supervisory Promotional Examination. Repeatable 3 times. <i>Six hours lecture.</i>	
<b>CRIMJ 201</b>	<b>3 Units</b>	<b>Special Topics</b>	
<b>Police Reserve Training: Arrest and Firearms</b> <i>Course Advisory: SCC minimum English standard.</i> Designed to qualify students for Police Reserve Officer LEVEL I. Consists of lectures on laws of arrest, search and seizure, techniques of arrest, search and detention, law and communication; legal aspects of firearms and range training in firearms use. Must earn a grade of "C" or better to qualify for LEVEL I. <i>Three and one-half hours lecture.</i>		These courses, numbered 98, 148, 248, 548, 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

Career Technical Education Division

## 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.

## Required Courses

	Units
DRAFT 45—Introduction to CAD	3
DRAFT 46—Advanced CAD	3
DRAFT 50—Basic Drafting	3
DRAFT 55—Mechanical Drafting I	3
DRAFT 60—Architectural Drafting I	3
DRAFT 75—Electronic Drafting	3
DRAFT 80—Civil Drafting I	3
IT 140—Industrial Materials	3
IT 151—Vocational Math	3
Elective selected from the list of Recommended Electives	<u>3</u>
	30

### Recommended Electives

DRAFT 56, 57, 65, 70, 79, 85, 92,  
125, 130, 135, 140  
INTDS 52  
IT 150  
OCCED 90, 91  
OHORT 30

NOTE: Many of the advanced courses will require CAD. It is important to take DRAFT 45 (Intro. to CAD) as early in your program as possible. College credit may be obtained with credit by examination in DRAFT 45, 50, and 60 or they may be waived.

## Job-Direct Certificate Requirements

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

<b>Drafting Technology</b>	Units
DRAFT 171—Autocad Drafting Tech. I	3
DRAFT 172—Autocad Drafting Tech. II	3
DRAFT 173—Autocad Drafting Tech. III	3
DRAFT 174—Autocad Drafting Tech. IV	3
*OCCED 90—Occupational Work Experience	<u>1</u>
	13

\*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

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<b>DRAFT 45</b>	<b>3 Units</b>
<b>Introduction to Computer-Aided Drafting (CAD)</b>	
<i>Prerequisite: DRAFT 50 or OHORT 30 (either may be taken concurrently). 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. Two hours lecture, four hours lab.</i>	

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<b>DRAFT 46</b>	<b>3 Units</b>
<b>Advanced Computer-Aided Drafting (CAD)</b>	
<i>Prerequisite: DRAFT 45. Designed to develop greater proficiency in CAD. Covers basic DOS commands, symbol libraries, bills of materials, attributes, use of digitizer, screen menus and 3-D. Repeatable 1 time. Two hours lecture, four hours lab.</i>	

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# Drafting

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<b>DRAFT 47A</b>	<b>1.5 Units</b>	<b>DRAFT 60</b>	<b>3 Units</b>
<b>Introduction to Computer-Aided Drafting (CAD), Part 1</b>		<b>Architectural Drafting I</b>	
<i>Prerequisite: DRAFT 50 or OHORT 30 (either may be taken concurrently) NOTE: Not open to students who have received credit for DRAFT 45. Course Advisories: SCC minimum English and math standards. This is the first of a two-part series 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. Two hours lecture, four hours lab (8 week course).</i>		<i>Prerequisites: DRAFT 50 or equivalent (may be concurrently). Course Advisories: SCC minimum English and math standards. 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. Two hours lecture, four hours lab.</i>	
<b>DRAFT 47B</b>	<b>1.5 Units</b>	<b>DRAFT 65</b>	<b>3 Units</b>
<b>Introduction to Computer-Aided Drafting (CAD), Part 2</b>		<b>Architectural Drafting II</b>	
<i>Prerequisite: DRAFT 47B. NOTE: Not open to students who have received credit for DRAFT 45. Course Advisories: SCC minimum English and math standards. This is the second of a two-part series 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. Two hours lecture, four hours lab (8 week course).</i>		<i>Prerequisites: DRAFT 60 with a grade of "C" or better; IT 151; DRAFT 45 (IT 151 &amp; DRAFT 45 may be taken concurrently). Course Advisories: SCC minimum English and math standards. Introduction to the trade terms, detailing and basic construction practices related to light commercial design and delineation. Two hours lecture, four hours lab.</i>	
<b>DRAFT 50</b>	<b>3 Units</b>	<b>DRAFT 68</b>	<b>3 Units</b>
<b>Basic Drafting</b>		<b>CAD In Apparel Design</b>	
<i>Course Advisories: SCC minimum English and math standards. 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. Two hours lecture, four hours lab.</i>		<b>See Fashion Design 68.</b>	
<b>DRAFT 55</b>	<b>3 Units</b>	<b>DRAFT 70</b>	<b>3 Units</b>
<b>Mechanical Drafting Level I</b>		<b>Technical Illustration and Design</b>	
<i>Prerequisite: DRAFT 50. Course Advisories: SCC minimum English and math standards. Emphasizes sectioning, pictorials, threads, fasteners, springs, tolerancing, measurement, and working drawings. Two hours lecture, four hours lab.</i>		<i>Prerequisite: DRAFT 50. Designed for advanced drafting students to develop the basic tools, skills and concepts required in the field of engineering illustration. Includes freehand sketching, pencil shading and inking techniques, isometric and perspective, and an introduction to the use of the airbrush. Followed with an overview of the processes and principles of industrial design. Two hours lecture, four hours lab.</i>	
<b>DRAFT 56</b>	<b>3 Units</b>	<b>DRAFT 75</b>	<b>3 Units</b>
<b>Descriptive Geometry</b>		<b>Electronic Drafting</b>	
<i>Prerequisites: IT 151, DRAFT 45. Course Advisories: SCC minimum English and math standards. 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. Two hours lecture, four hours lab.</i>		<i>Prerequisites: DRAFT 50 (may be taken concurrently). Designed for electronics and drafting technicians to develop skill in reading and drawing plans involving use of electronic symbols, circuits, terminology, components, printed circuit boards, and electromechanical design. Two hours lecture, four hours lab.</i>	
<b>DRAFT 57</b>	<b>3 Units</b>	<b>DRAFT 79</b>	<b>2 Units</b>
<b>Mechanical Drafting Level II</b>		<b>Blueprint Reading</b>	
<i>Prerequisites: DRAFT 55 with a grade of "C" or better; DRAFT 45 and IT 151 (both may be taken concurrently). Course Advisories: SCC minimum English and math standards. A continuation of DRAFT 55, with special emphasis on geometric tolerancing, gears, cams, mechanisms, weldments, and weight calculations. Two hours lecture, four hours lab.</i>		<i>Course Advisories: SCC minimum English and math standards. Designed to provide understanding and interpretation of a variety of blueprints while utilizing basic drafting techniques. Emphasizes the ability to recognize and identify symbols and specifications common to modern industrial blueprints. One hour lecture, three hours lab.</i>	

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<b>DRAFT 80</b> <b>Civil Drafting I</b> <i>Prerequisites: DRAFT 50 (may be taken concurrently). Course Advisory: IT 151.</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>	<b>3 Units</b>	<b>DRAFT 140</b> <b>Surveying</b> <i>Prerequisites: DRAFT 80 and IT 151.</i> Presents the fundamentals of plane surveying with practice in the field using tape, levels, transit and theodolite. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>
<b>DRAFT 85</b> <b>Civil Drafting II</b> <i>Prerequisites: DRAFT 80, 45; IT 151.</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>	<b>3 Units</b>	<b>DRAFT 150</b> <b>Computer Graphics for Non-Drafters</b> <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 (8 week course).</i>	<b>1 Unit</b>
<b>DRAFT 92</b> <b>Special Problems</b> <i>Prerequisite: DRAFT 50.</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>	<b>1-3 Units</b>	<b>DRAFT 171</b> <b>AutoCAD Drafting Technician I</b> <i>Course Advisories: SCC minimum English and math standards.</i> Introduces the drafting student to CAD technology, utilization and terminology. The student will complete a series of related drawing problems using a CAD work station. <i>Six hours lecture, eighteen hours lab (5 week course).</i>	<b>3 Units</b>
<b>DRAFT 125</b> <b>Solid Modeling</b> <i>Prerequisite: DRAFT 45.</i> Teaches the basic concepts and skills necessary to create, view, and manipulate objects in three dimensional space using an advanced modeling program. <i>Two hours lecture, four hours lab.</i>	<b>3 Units</b>	<b>DRAFT 172</b> <b>AutoCAD Drafting Technician II</b> <i>Prerequisite: DRAFT 171. Course Advisories: SCC minimum English and math standards.</i> Introduces drafting students to architectural and mechanical drafting elements through CAD utilization . The student will complete a series of related drawing problems using a CAD work station. <i>Six hours lecture, eighteen hours lab (5 week course).</i>	<b>3 Units</b>
<b>DRAFT 130</b> <b>Electronic Drafting with CAD</b> <i>Prerequisite: DRAFT 45. Course Advisories: SCC minimum English and math standards.</i> Using AutoCAD as a tool, the student will learn how to create an electronic symbols library and then use these symbols in schematic, logic, and printed circuit board drawings. Course requires completion of a complete set of drawings for a printed circuit board, including proper documentation all based on industry standards. <i>Two hours lecture, four hours lab.</i>	<b>3 Units</b>	<b>DRAFT 173</b> <b>AutoCAD Drafting Technician III</b> <i>Prerequisite: DRAFT 172. Course Advisories: SCC minimum English and math standards.</i> Introduces drafting students to fasteners, dimensioning and pictorial representation through CAD processes . The student will complete a series of related drawing problems using a CAD work station. <i>Six hours lecture, eighteen hours lab (5 week course).</i>	<b>3 Units</b>
<b>DRAFT 135</b> <b>Structural and Detail Drafting</b> <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 (3 week course).</i>	<b>1 Unit</b>	<b>DRAFT 174</b> <b>AutoCAD Drafting Technician IV</b> <i>Prerequisite: DRAFT 173. Course Advisories: SCC minimum English and math standards.</i> Introduces drafting students to section views and details; descriptions and supplemental drawings. The student will complete a series of related drawing problems using a CAD work station. <i>Six hours lecture, eighteen hours lab (5 week course).</i>	<b>3 Units</b>
		<b>Special Topics</b> These courses, numbered 98, or 148 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Specific information will vary with each course.	

# Early Childhood Education

Fine & Applied Arts/Behavioral Sciences Division

## 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 with a grade of C (2.0) or better in each course, the general education requirements, and electives.

## Required Courses

Students should enroll in HUDV 38 during their first semester in the program. Students will spend their first semester of ECE Practicum I (ECE 65) 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 66 or 67) or off campus (ECE 67). Off campus placements will be made with an approved mentor teacher. Prior to the first week of enrollment in ECE 65 or 66, students will be required to be fingerprinted at District expense.

	Units	
ECE 62—Intro. to Early Childhood Ed	3	<b>Recommended Electives</b> ECE 79, 99, 101, 102, 110, 121, 122, 123, 124 HU DV 40, 53 NUTRI 10, 51, 52 OCCED 90, 91 PSYCH 1 SOCSOC 22 SOCIO 1
ECE 63—ECE Theory & Practice	3	
ECE 65—ECE Practicum I	4	
ECE 66—ECE Practicum II OR		
ECE 67—ECE Field Practice	4	
ECE 70—Science for Early Childhood	3	
ECE 71—Language/Literature for ECE	3	
ECE 72—Art for Early Childhood	3	
ECE 73—Music for Early Childhood	3	
HU DV 38—Child Development	3	
HU DV 50—Child, Family & Community	3	
	32	

Students enrolling in the following courses are strongly urged to see an ECE instructor prior to registration.

**ECE 50** **3 Units**  
**Violence and Its Impact on Children and Their Families**  
*Course Advisories: SCC minimum English and math standards.*  
 Exploration of violence in America and its impact on the physical and psychological well-being of children, their families and early childhood teachers. Emphasis on critical factors in understanding appropriate early childhood violence prevention and intervention strategies. *Three hours lecture.*

**ECE 51** **3 Units**  
**Introduction to Intervention and Strategies for Children and Their Families**  
*Course Advisories: SCC minimum English and math standards.*  
 Provides early childhood teachers knowledge and skills to respond to the needs of children and families who experience stress and chronic violence through exploration of the power of play in helping children resolve conflicts and methods for teaching alternative to violence. *Three hours lecture.*

**ECE 55** **.5 or 1 Unit**  
**Key Concepts in Early Childhood**  
*Course Advisory: SCC minimum English standard.* 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 one hour lecture.*

# Early Childhood Education

ECE 62

3 Units

## Introduction to Early Childhood Education

*Prerequisite: HU DV 38 (may be taken concurrently). Course Advisories: SCC minimum English and math standards.* 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. *Three hours lecture.*

ECE 63

3 Units

## Early Childhood Education Theory and Practice

*Prerequisite: ECE 62 and HU DV 38. Course Advisories: SCC minimum English and math standards.* Continues the introduction to early childhood teaching begun in ECE 62 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. *Three hours lecture.*

ECE 65

4 Units

## Early Childhood Education Practicum I

*Prerequisites: ECE 62 or concurrent enrollment.* During the first week of enrollment, students will be required to be fingerprinted and have a TB test at District expense. Course Advisory: SCC minimum English standard. Supervised laboratory experience with 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, and relationship of theories to practices. *One hour lecture, nine hours by arrangement.*

ECE 66

4 Units

## Early Childhood Education Practicum II

*Prerequisites: ECE 65 and concurrent enrollment in ECE 63.* During the first week of enrollment, students will be required to be fingerprinted and have a TB test at District's expense. Course Advisories: SCC minimum English and math standards. 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. *One hour lecture, nine hours by arrangement.*

ECE 67

4 Units

## Early Childhood Education Field Practice

*Prerequisites: ECE 63 (may be taken concurrently) and ECE 65. Course Advisories: SCC minimum English and math standards.* Work experience at an approved early childhood job site under the direct supervision of a fully qualified nursery school 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. NOTE: Combined units for all work experience courses shall not exceed 12 units. *One hour lecture (related seminar), twenty hours weekly by arrangement (work experience).*

ECE 70

3 Units

## Science for Early Childhood

*Prerequisite: HU DV 38 (may be taken concurrently) and ECE 62. 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. *Three hours lecture.*

ECE 71

3 Units

## Language and Literature for ECE

*Prerequisites: ECE 62 (may be taken concurrently) and HU DV 38. Course Advisory: SCC minimum English standard.* Introduction to children's literature and to the development of speech and language during infancy and early childhood. Students will explore teaching techniques which promote language acquisition including story telling, role play, language games, flannel board stories, puppets, slide shows, and the development of dramatic play materials. *Three hours lecture.*

ECE 72

3 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 73

3 Units

## Music for Early Childhood

*Course Advisories: ECE 62; 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. *Three hours lecture.*

# Early Childhood Education

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<b>ECE 75</b> <b>Care of Infants and Toddlers</b> <i>Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard. A study of the development and care of children from birth to age three. Includes standards for staffing, equipping and administering an infant care center. Three hours lecture.</i>	<b>3 Units</b>	<b>ECE 85</b> <b>Educational Games</b> <i>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.</i>	<b>.5 Unit</b>
<b>ECE 76</b> <b>Programs for Two-Year-Olds</b> <i>Course Advisory: SCC minimum English and math standards. Presents the developmental characteristics of both normal and atypical two-year-old children and appropriate modifications of the preschool curriculum to meet their special needs. Curriculum development techniques in the area of art, language, literature, music, science, cooking, cognitive activities and appropriate scheduling are included. Observations in the SCC Children's Programs are required. Three hours lecture.</i>	<b>3 Units</b>	<b>ECE 86</b> <b>Constructive Play: Challenging Children to Think</b> <i>Course Advisory: SCC minimum English standard. The area of cognitive development will be addressed from a developmental perspective, with an emphasis on developing problem-solving skills. The course will focus on the teacher's role as facilitator of active learning, and will introduce specific materials and activities that challenge children to think. Repeatable 3 times. One hour lecture.</i>	<b>1 Unit</b>
<b>ECE 79</b> <b>Adult Supervision: The Mentor Teacher</b> <i>Prerequisite: Prior completion of the ECE Certificate and permission of the Director of Children's Programs to verify the prerequisite. Course Advisory: SCC minimum English standard. 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. Two and three-quarters hours (12 week course).</i>	<b>2 Units</b>	<b>ECE 99</b> <b>ECE Honors</b> <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. 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.</i>	<b>1-3 Units</b>
<b>ECE 80</b> <b>Early Childhood Administration</b> <i>Prerequisites: ECE 62 and HU DV 38. Course Advisory: SCC minimum English standard. 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 for Teachers Preparation and Licensing for the Children's Center Supervision Permit. Three hours lecture.</i>	<b>3 Units</b>	<b>ECE 101</b> <b>Sensitive and Critical Topics in ECE</b> <i>Course Advisory: SCC minimum English standard. A short course designed to include current topics in Child Development or Early Childhood Education that are particularly sensitive in nature and/or subject to critical timing. It is designed especially as an update for teachers and aides currently working in the field. Emphasis will be on the role of the teacher and the children's center. Repeatable 5 times. Eight hours lecture total for semester.</i>	<b>.5 Unit</b>
<b>ECE 81</b> <b>Early Childhood Staff Supervision</b> <i>Prerequisites: ECE 62 and HU DV 38. Course Advisory: Eligibility for ENGL 1. 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 for Teachers Preparation and Licensing for the Children's Center Supervision Permit. Three hours lecture.</i>	<b>3 Units</b>	<b>ECE 102</b> <b>Curriculum Development</b> <i>Course Advisory: SCC minimum English and math standards. Curriculum development techniques for preschool 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 5 times. Eight hours lecture total for semester.</i>	<b>.5 Unit</b>

# Early Childhood Education

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<b>ECE 110</b>	<b>3 Units</b>	<b>ECE 245</b>	<b>1.5 Units</b>
<b>Emergent Literacy in Early Childhood</b> <i>Prerequisite: ECE 71. Course Advisory: SCC minimum English standard.</i> Prepares early childhood teachers and caregivers to enhance the early literacy outcomes of young children. Presents the early literacy developmental progression and skills in teaching early literacy to young children, from birth through age 5. Students will acquire knowledge in developing a literacy-rich curriculum, oral language development, literacy-enhanced play, reading, writing, alphabet knowledge, and phonemic awareness. <i>Three hours lecture.</i>		<b>Foster Parenting</b> <i>Course Advisory: SCC minimum English standard.</i> In-depth study of issues relating to foster care including separation, attachment and loss, child abuse, and neglect. Laws and agencies pertaining to foster care will be discussed. <i>Three hours lecture.</i>	
<b>ECE 121</b>	<b>.5 Unit</b>	<b>ECE 501</b>	<b>Non-Credit</b>
<b>Family Child Care: Introduction and Licensing Regulations</b> <i>Course Advisories: SCC minimum English and math standards.</i> The study of the family child care home setting, licensing application, parent responsibilities, community resources, and assessment of local community needs. <i>Two hours lecture (4 week course).</i>		<b>Early Childhood Education Children's Programs</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Sixteen hours by arrangement total for the semester.</i>	
<b>ECE 122</b>	<b>.5 Unit</b>	<b>ECE 550</b>	<b>Non-Credit</b>
<b>Family Child Care: Guidance and Theory</b> <i>Course Advisories: SCC minimum English and math standards.</i> The study of the family child care home setting includes guidance techniques, program planning, child development theories, and how to work effectively with parents. <i>Two hours lecture (4 week course).</i>		<b>Positive Parenting Practices</b> 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. <i>Three hours lecture (8 week course).</i>	
<b>ECE 123</b>	<b>.5 Unit</b>	<b>Special Topics</b> These courses, numbered 98 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.	
<b>ECE 124</b>	<b>.5 Unit</b>		
<b>Family Child Care: Business and Legal Aspects</b> <i>Course Advisories: SCC minimum English and math standards.</i> Study of the family child care home setting includes record keeping, budget preparation, marketing and small business practices. <i>Two hours lecture (4 week course).</i>			
<b>ECE 200</b>	<b>.5 Units</b>		
<b>ECE Mentor Teacher Seminar</b> <i>Prerequisite: Selection as a Mentor Teacher with the California Mentor Teacher Program. Course Advisories: SCC English and math standards.</i> 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. <i>Eight hours lecture total for semester.</i>			

# Economics

*Business & Computer Science Division*

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## 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, businesses, 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 their lives.

## Associate Degree

Not offered in this discipline.

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### ECON 1

**3 Units**

#### **Principles of Economics (Macroeconomics)**

*Course Advisories: Eligibility for ENGL 1; 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. (CAN ECON 2). *Three hours lecture.*

### ECON 2

**3 Units**

#### **Principle of Economics (Microeconomics)**

*Course Advisories: Eligibility for ENGL 1; 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. (CAN ECON 4). *Three hours lecture.*

## Electronics Technology

### 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.

### Required Courses

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

	<b>Units</b>	<b>Recommended Electives</b>
ECTRN 50—DC Electronic Principles	4	DRAFT 50
ECTRN 51—AC Electronic Principles	4	ECTRN 102,111,112, 113, 150, 151,171
ECTRN 52—Semiconductor Devices and Circuits	4	ENGL 51
ECTRN 53—Communications Operational Amplifiers	4	IT 140
ECTRN 60—Basic Digital Fundamentals	4	OCCED 90, 91
ECTRN 61—Digital Systems: Principles & Applications	4	
ECTRN 140—Mathematics for Electronics	4	
ECTRN 141—Mathematic for Electronics	4	Advanced standing may be granted for ECTRN 50 and/or ECTRN 51 or ECTRN 60 by achieving a satisfactory score on a written test. The test may not be retaken.
MT 162—Robotics Manufacturing Systems	3	
	35	

**Students may substitute:**  
ECTRN 132 and 133 for ECTRN 140  
ECTRN 134 and 135 for ECTRN 141

### Job-Direct Certificate Requirements

For each of the following programs, the required courses must be completed with a grade of "C" or better.

#### Computer Investigations

<b>Required Courses</b>	<b>Units</b>
CIS 1—Introduction to Computer Science	3
CRIMJ 51 —Criminal Investigation	3
ECTRN 172 —Computer Forensics: Evidence Recovery	1.5
ECTRN 173 —Computer Forensics Investigations	3
ECTRN 174 —Com Forensics: Operating Systems Internals	3
	13.5

#### Computer Information Security

<b>Required Courses</b>	<b>Units</b>
ECTRN 122—Computer Network+ Technology	4
ECTRN 124 —Computer Security+ Technology	4
ECTRN 126 —A+ Computer Hardware Technology	4
ECTRN 128 —A+ Computer Operating Systems Technology	4
	16

#### Electronic Security and Surveillance Technician

<b>Required Courses</b>	<b>Units</b>
CRIMJ 1 —Introduction to Criminal Justice	3
ECTRN 111 —Fundamentals of Wire & Cabling	1
ECTRN 112—Fundamentals of Fiber Optics	1
ECTRN 113 —Fund. of Wireless Communication	1
ECTRN 171 —Security and Surveillance Techniques	4
	10

#### Home Technology Integrator

<b>Required Courses</b>	<b>Units</b>
IT 160—Electrical Fundamentals	3
ECTRN 111—Fund. of Wire & Cabling	1
ECTRN 112—Fund. of Fiber Optics	1
ECTRN 113—Fund. of Wireless Communication	1
ECTRN 175—Home Technology Integration Techniques	4
	10

# Electronics

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<b>ECTRN 50</b> <b>DC Electronic Principles</b> <i>Prerequisites: ECTRN 132 or ECTRN 140 (either may be taken concurrently). Course Advisory: SCC minimum English standard.</i> Presents the principles of direct current and passive devices, and introduces active devices. Mathematical analysis and laboratory construction of circuits are required. <i>Three hours lecture, three hours lab.</i>	<b>4 Units</b>	<b>ECTRN 101</b> <b>Introduction to Electricity and Electronics</b> <i>Prerequisite: None. NOTE: Not open for credit to students who have taken ECTRN 50 or 51. Course Advisories: SCC minimum math and English standards.</i> 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. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>
<b>ECTRN 51</b> <b>AC Electronic Principles</b> <i>Prerequisite: ECTRN 50 and ECTRN 133 or ECTRN 140 (all may be taken concurrently).</i> Presents the principles of alternating current circuits and active devices. Mathematical analysis and laboratory construction of circuits are required. <i>Three hours lecture, three hours lab.</i>	<b>4 Units</b>	<b>ECTRN 102</b> <b>Electrical Safety</b> <i>Course Advisories: SCC minimum math and English standards.</i> 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. <i>One to three hours lecture.</i>	<b>1-3 Units</b>
<b>ECTRN 52</b> <b>Semiconductor Devices and Circuits</b> <i>Prerequisites: ECTRN 51 and ECTRN 134 or ECTRN 141 (ECTRN 134 or 141 may be taken concurrently). Course Advisory: SCC minimum English standard.</i> Presents the principles of discrete semiconductor devices and circuits. Mathematical analysis and laboratory constructions of circuits required. <i>Three hours lecture, three hours lab.</i>	<b>4 Units</b>	<b>ECTRN 111</b> <b>Fundamentals of Wire and Cabling</b> <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>	<b>1 Unit</b>
<b>ECTRN 53</b> <b>Communications and Operational Amplifiers</b> <i>Prerequisite: ECTRN 52 and ECTRN 135 or ECTRN 141 (ECTRN 135 or 141 may be taken concurrently). Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture, three hours lab.</i>	<b>4 Units</b>	<b>ECTRN 112</b> <b>Fundamentals of Fiber Optics</b> <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>	<b>1 Unit</b>
<b>ECTRN 60</b> <b>Basic Digital Fundamentals</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture, three hours lab.</i>	<b>4 Units</b>	<b>ECTRN 113</b> <b>Fundamentals of Wireless Communication</b> <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>	<b>1 Unit</b>
<b>ECTRN 61</b> <b>Digital Systems: Principles and Applications</b> <i>Prerequisite: ECTRN 60 (may be taken concurrently). Course Advisory: SCC minimum English standard.</i> Presents the principles of counter circuits, registers, memories, arithmetic logic, integrated circuits, and digital computer introduction. Mathematical analysis and laboratory assignments are required. <i>Three hours lecture, three hours lab.</i>	<b>4 Units</b>		

<b>ECTR N 122</b> <b>Computer Network+ Technology</b> <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>	<b>4 Units</b>	<b>ECTR N 128</b> <b>A+ Computer Operating Systems Technology</b> <i>Course Advisories: ECTR N 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>	<b>4 Units</b>
<b>ECTR N 124</b> <b>Computer Security+ Technology</b> <i>Prerequisite: ECTR N 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>	<b>4 Units</b>	<b>ECTR N 132</b> <b>Mathematics for Electronics</b> <i>Prerequisite: None. NOTE: Not open to students who have completed ECTR N 140. Course Advisory: SCC minimum English standard.</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>	<b>2 Units</b>
<b>ECTR N 126</b> <b>A+ Computer Hardware Technology</b> <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>	<b>4 Units</b>	<b>ECTR N 133</b> <b>Mathematics for Electronics</b> <i>Prerequisite: ECTR N 132. NOTE: Not open to students who have completed ECTR N 140.</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>	<b>2 Units</b>
		<b>ECTR N 134</b> <b>Mathematics for Electronics</b> <i>Prerequisite: ECTR N 133 with a grade of "C" or better. NOTE: Not open to students who have completed ECTR N 141.</i> Presents the principles of trigonometry as it applies to electronics. Frequent homework assignments and written tests are required. <i>Four hours lecture (8 week course).</i>	<b>2 Units</b>
		<b>ECTR N 135</b> <b>Mathematics for Electronics</b> <i>Prerequisite: ECTR N 134. NOTE: Not open to students who have completed ECTR N 141.</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 (8 week course).</i>	<b>2 Units</b>

# Electronics

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**ECTRN 140**

**4 Units**

**Mathematics for Electronics**

*Prerequisite: None. NOTE: Not open to students who have completed ECTRN 132 & 133. Course Advisories: SCC minimum English and math standards.* Presents the principles of algebra, graphs and determinants as they apply to electronics. Frequent homework assignments and written tests required. *Four hours lecture.*

**ECTRN 141**

**4 Units**

**Mathematics for Electronics**

*Prerequisite: ECTRN 140 with a grade of "C" or better. NOTE: Not open to students who have completed ECTRN 134 & 135.* Presents the principles of trigonometry, vectors, and number systems as they apply to electronics. Frequent homework assignments and written tests are required. *Four hours lecture.*

**ECTRN 158**

**1.5 Units**

**Microcomputer Maintenance**

*Course Advisory: SCC minimum English standard.* 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. *Three hours lecture, one hour lab (8 week course).*

**ECTRN 171**

**4 Units**

**Security and Surveillance Techniques**

*Course Advisory: SCC minimum English and math standards.* 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. *Three hours lecture, three hours lab.*

**ECTRN 172**

**1.5 Units**

**Computer Forensics: Evidence Recovery**

*Course Advisories: 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. *One hour lecture, one and one-half hours lab.*

**ECTRN 173**

**3 Units**

**Computer Forensics Investigations**

*Prerequisite: CIS 1. Course Advisory: Eligibility for ENGL 1; SCC minimum math standard.* Introduces the student to the tools and techniques of preserving and investigating digital evidence in a systematic and scientifically reliable manner using modern computer forensic software applications. The student is introduced to the interpretation and analysis of recovered data for the purpose of collecting legal evidence. Student is exposed to data in an array of formats and applications from several computer types and operating systems as well as deleted, encrypted, and damaged information. Evidence reporting practices are also introduced. *Two hours lecture, three hours lab.*

**ECTRN 174**

**3 Units**

**Computer Forensics: Operating Systems Internals**

*Prerequisite: ECTRN 173 with a grade of "C" or better. Course Advisories: 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. *Two hours lecture, three hours activity.*

**ECTRN 175**

**4 Units**

**Home Technology Integration Techniques**

*Course Advisory: SCC minimum English and math standards.* 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. Prepares the student for HTI+ certification. *Three hours lecture, three hours lab.*

**ECTRN 212**

**1 Unit**

**FCC License Preparation**

*Course Advisories: ECTRN 53, 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.*

**ECTRN 213**

**1 Unit**

**FCC License Preparation**

*Course Advisories: ECTRN 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.*

## 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.

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<b>ENGR 1</b> <b>Introduction to Engineering (F-Day)</b> <i>Course Advisories: Eligibility for enrollment in ENGL 1 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. One hour lecture.</i>	<b>1 Unit</b>	<b>ENGR 30</b> <b>Engineering Mechanics: Statics (F-Day)</b> <i>Prerequisites: MATH 21 and PHYS 6. Course Advisory: SCC minimum English standard. 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. (CAN ENGR 8). Three hours lecture, one hour discussion.</i>	<b>3 Units</b>
<b>ENGR 2</b> <b>Engineering Graphics</b> <i>Prerequisite: MATH 51 (Trigonometry). Course Advisory: SCC minimum English standard. A study of the principles of orthographic drawing and descriptive geometry with application using freehand drawing and computer-aided drafting, and graphical problem-solving including nomography, graphical mathematics, empirical equations, and presentation and analysis of engineering data. Two hours lecture, four hours lab.</i>	<b>3 Units</b>	<b>ENGR 45</b> <b>Properties of Materials</b> <i>Prerequisites: PHYS 6 and CHEM 1. Course Advisory: SCC minimum English standard. 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. (CAN ENGR 4). Three hours lecture, three hours lab.</i>	<b>4 Units</b>
<b>ENGR 17</b> <b>Introduction To Electrical Engineering (S-Day)</b> <i>Prerequisites: MATH 23 (may be taken concurrently) and PHYS 7. Course Advisory: SCC minimum English standard. 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.</i>	<b>4 Units</b>		

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# English

Humanities Division

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## 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.

## Required Courses

The courses are listed in the suggested sequence.

	Units	
ENGL 2—Critical Thinking & Writing About Literature		
OR		
ENGL 2H—Honors Critical Thinking & Writing About Literature	3	<b>Recommended Electives</b>
		ENGL 4, 4H, 5, 6, 7, 12, 16, 18, *21, *23, *24, *25, *30, *31, 32, 33, 34, 35, 36, 37, *40, *41, 44, 48, 49, 58, AMST 1, 2
<b>One genre course from the list below:</b>	3	*If not previously taken for the major.
ENGL 21—Intro. to Poetry		
ENGL 23—Intro. to the Modern Novel		
ENGL 24—Intro. to the Short Story		
ENGL 25—Intro. to Drama as Literature		
<b>Two survey courses from the list below:</b>	6	
ENGL 30—Survey of American Literature I		
ENGL 31—Survey of American Literature II		
ENGL 40—Survey of English Literature		
ENGL 41—Survey of English Literature		
Electives selected from the list of Recommended Electives	6	
	18	

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## English as a Second Language

### Program Description

The ESL courses emphasize study in English of reading, writing, speaking, and listening for non-native speakers. The program includes practice in the above areas as well as vocabulary acquisition and grammar work with the goals of building fluency in English and moving the students into mainstream college courses.

### Associate Degree

Not offered in this discipline.

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## English

## ENGL 1

3 Units

**College Composition**

*Prerequisite:* A score of 102 or better within the last three years on the sentence skills section of the assessment test; or SAT verbal score of at least 500; or ACT score of at least 23; or recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or a grade of "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. 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 six to ten essays, one of which may be a research paper, based on essays, literature read in class, and/or personal experience. (CAN ENGL 2) (ENGL 1 & 2 = CAN ENGL SEQ A). *Three hours lecture.*

## ENGL 2

3 Units

**Critical Thinking and Writing About Literature**

*Prerequisite:* ENGL 1 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. (CAN ENGL 4) (ENGL 1 & 2 = CAN ENGL SEQ A). *Three hours lecture.*

## ENGL 2H

3 Units

**Honors Critical Thinking and Writing About Literature**

*Prerequisite:* Eligibility for Honors Program and ENGL 1 with a grade of "B" or better. An honors course in 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 4

3 Units

**Critical Thinking and Composition: Language in Context**

*Prerequisite:* ENGL 1. *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 4H

3 Units

**Honors Critical Thinking and Composition: Language in Context**

*Prerequisite:* Eligibility for Honors Program and ENGL 1 with a grade of "B" or better. An honors course in the development of critical thinking, reading, and writing skills as they apply to the analysis and development of written argument from diverse perspectives. This course offers practice in the intellectual skills necessary for critical thinking, including observation, analysis, and research; it provides instruction in the development organization 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, critical papers, and research projects are required. *Three hours lecture.*

## ENGL 5

3 Units

**Advanced Composition**

*Prerequisite:* ENGL 1 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.*

# English

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- ENGL 6** **3 Units**  
**Creative Writing I**  
*Prerequisite: ENGL 1. 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. (CAN ENGL 6). Three hours lecture.*
- ENGL 7** **3 Units**  
**Creative Writing II**  
*Prerequisite: ENGL 6. 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 12** **3 Units**  
**Modern Women Writers**  
*Prerequisite: ENGL 1. 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 13** **3 Units**  
**Mystery Fiction**  
*Prerequisite: ENGL 1. 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 14** **3 Units**  
**The Bible as Literature**  
*Prerequisite: ENGL 1. 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 16** **3 Units**  
**Masterpieces of Western World Literature**  
*Prerequisite: ENGL 1. A study of a selection of major works in Western World literature from the Greeks to the present, excluding British Isles and American writers. This course will examine these selected major works, introducing the student to some of the most important literary efforts in Western World literature, as well as the works' historical and cultural contributions. Critical papers and examinations are required. Three hours lecture.*
- ENGL 18** **3 Units**  
**Introduction To Mythology**  
*Prerequisite: ENGL 1. A survey of the major elements of mythology, its history and development as part of the human experience with a central focus on Western mythology, its origins and development as well as its appearance in and influence on literature. Examinations and papers are required. Three hours lecture.*
- ENGL 21** **3 Units**  
**Introduction to Poetry**  
*Prerequisite: ENGL 1. 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 (CAN ENGL 20). Three hours lecture.*
- ENGL 23** **3 Units**  
**Introduction to the Modern Novel**  
*Prerequisite: ENGL 1. 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. (CAN ENGL 18). Three hours lecture.*
- ENGL 24** **3 Units**  
**Introduction to the Short Story**  
*Prerequisite: ENGL 1. A study of the short story as a form of literature, examining the historical development of the short story, the literary elements of the genre, and the major themes treated by the short story. Examinations and critical papers are required. Three hours lecture.*

<p><b>ENGL 25</b></p> <p><b>Introduction to Drama as Literature</b>  <i>Prerequisite: ENGL 1.</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></p>	<p><b>3 Units</b></p>	<p><b>ENGL 34</b></p> <p><b>African American Novel and Drama in the United States</b>  <i>Prerequisite: ENGL 1.</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></p>	<p><b>3 Units</b></p>
<p><b>ENGL 30</b></p> <p><b>Survey of American Literature I</b>  <i>Prerequisite: ENGL 1.</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. (CAN ENGL 14) (ENGL 30 and 31 = CAN ENGL SEQ C). <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>	<p><b>ENGL 35</b></p> <p><b>Introduction to Chicano Literature</b>  <i>Prerequisite: ENGL 1.</i> A study and evaluation of literature written by Chicanos. Students will read and discuss essays, short stories, novels, poetry, and drama. Critical papers and examinations are required. <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>
<p><b>ENGL 31</b></p> <p><b>Survey of American Literature II</b>  <i>Prerequisite: ENGL 1.</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. (CAN ENGL 16) (ENGL 30 and 31 = CAN ENGL SEQ C). <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>	<p><b>ENGL 36</b></p> <p><b>Survey of American Multi-Ethnic Literature</b>  <i>Prerequisite: ENGL 1.</i> A study of literature by various American ethnic writers: Asian American, Black American, European American, Hispanic American, and Native American. Written examinations and critical papers are required. <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>
<p><b>ENGL 32</b></p> <p><b>Introduction to Native American Literature</b>  <i>Prerequisite: ENGL 1.</i> A study of representative literature by various Native American writers. Critical papers and written examinations are required. <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>	<p><b>ENGL 37</b></p> <p><b>Survey of Asian American Literature</b>  <i>Prerequisite: ENGL 1.</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></p>	<p><b>3 Units</b></p>
<p><b>ENGL 33</b></p> <p><b>Survey of African American Literature in the United States</b>  <i>Prerequisite: ENGL 1.</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></p>	<p><b>3 Units</b></p>	<p><b>ENGL 38</b></p> <p><b>The California Experience in Literature</b>  <i>Prerequisite: ENGL 1.</i> 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. <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>
		<p><b>ENGL 40</b></p> <p><b>Survey of English Literature</b>  <i>Prerequisite: ENGL 1.</i> The study of works of major British authors from the Anglo-Saxon period through the Eighteenth Century, supplemented by consideration of literary trends in relation to the social and political history of England. Examinations and critical papers are required. (CAN ENGL 8) (ENGL 40 &amp; 41 = CAN ENGL SEQ B). <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>

# English

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<b>ENGL 41</b> <b>Survey of English Literature</b> <i>Prerequisite: ENGL 1.</i> Study of representative selections of prose and poetry written by British authors from approximately 1798 to the present. Emphasis will be placed on the major writers of the Romantic Movement, Victorian Age, and early 20th Century. Examinations and critical papers are required. (CAN ENGL 10) (ENGL 40 & 41 = CAN ENGL SEQ B). <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ENGL 49</b> <b>English Honors</b> <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> 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. <i>Three to nine hours weekly by arrangement with instructor and division Dean.</i>	<b>1-3 Units</b>
<b>ENGL 44</b> <b>Introduction to Shakespeare</b> <i>Prerequisite: ENGL 1.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ENGL 51</b> <b>Technical Writing</b> <i>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.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>ENGL 46</b> <b>American Sign Language 1</b> <i>Prerequisite: Eligibility for ENGL 1.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ENGL 58</b> <b>Creative Writing: The Literary Magazine</b> <i>Prerequisite: ENGL 1.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>ENGL 47</b> <b>American Sign Language 2</b> <i>Prerequisite: ENGL 46.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ENGL 64</b> <b>Writing the Research Paper</b> <i>Prerequisite: Completion of ENGL 370.</i> 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. <i>One to three hours activity.</i>	<b>.5-1.5 Units</b>

- ENGL 87** **1 or 1.5 or 2 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 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** **.5-1.5 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 350** **3 Units**  
**Reading and Writing Skills for ESL Students**  
*Prerequisite: A score of 51-69 within the last three years on the sentence skills section of the assessment test; or recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or a grade of "Credit" or better and a score of 4 or more on the Composition Mastery Final Examination upon completion of ENGL 305. Corequisites: Enrollment in one unit of ENGL 320 and one unit of ENGL 310. Credit for this course will be given only when the requirements for all three components have been met.* Combines writing and reading practice to increase skill in developing clear paragraphs. 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 credit/no credit only course. *Three hours weekly.*
- ENGL 355** **3 Units**  
**Writing and Reading Skills**  
*Prerequisite: A score of 51-69 within the last three years on the sentence skills section of the assessment test; or recommendation of a counselor or English instructor based on a Multiple Measures Evaluation; or a grade of "Credit" or better and a score of 4 or more on the Composition Mastery Final Examination upon completion of ENGL 305 or 350. Corequisites: Concurrent enrollment in one unit of ENGL 320 and one unit of ENGL 310. Credit for this course will be given only when the requirements for all three components have been completed.* Combines writing and reading practice to increase skill in developing clear paragraphs. This course includes an intensive study of grammar, reading comprehension, and ways to find ideas. This is a credit/no credit only course. *Three hours lecture.*
- ENGL 370** **3 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: Concurrent enrollment in 1/2 unit of ENGL 310 or ENGL 320. Credit for the course will be given only when the requirements for both 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 credit/no credit only course. *Three hours lecture.*
- Special Topics**  
These courses, numbered 48 or 98, 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.

# English

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## Reading

**ENGL 62**

**3 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 placed in a reading module based on individual needs. Credit will be earned upon 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 course. May be repeated to a maximum of 6 units, including initial enrollment. *Two hours activity weekly per unit.*

**ENGL 331**

**3 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 emphasizes strategies for word analysis and dictionary used to identify, learn, use, and retain meanings of unfamiliar words. This is a credit/no credit only course. Repeatable 1 time. *Three hours lecture.*

**ENGL 353**

**3 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 ideas, 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, although practice reading passages will also include different types of materials such as magazines and fiction. The close relationships among reading, writing, and thinking will be emphasized. Repeatable 1 time. This is a credit/no credit only class. *Three hours lecture.*

## English As A Second Language

**ESL 6**

**3 Units**

### **ESL: Composition Skills**

*Prerequisite: Successful completion of ESL 78 or ESL 79. 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 in contrast to the logic systems of other languages. 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 55**

**3 Units**

### **Advanced ESL Reading**

*Prerequisites: Successful completion of ESL 78 or ESL 79 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.*

# English—English as a Second Language

<b>ESL 77</b> <b>Conversation/Pronunciation Skills</b> <i>Corequisite: Concurrent enrollment in one unit of ESL 330. Prerequisite: Successful completion of ESL 372 or ESL 373 or ESL 374. Course Advisory: ESL Assessment Test Score: At or above Level 2.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ESL 330</b> <b>ESL Lab</b> <i>Course Advisory: Familiarity with basic reading and writing skills: English alphabet letter names, numbers, and ability to follow directions.</i> 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, credit/no-credit only course. May be repeated to a maximum of 6 units, including initial enrollment. <i>Two hours activity weekly per unit.</i>	<b>.5 -3 Units</b>
<b>ESL 78</b> <b>Intermediate ESL Reading</b> <i>Prerequisite: Successful completion of ESL 372 or ESL 373 or ESL 374. Course Advisory: ESL Assessment Test Score: At or above Level 2.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ESL 372</b> <b>Fundamentals of ESL Reading</b> <i>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.</i> Offers practice in high beginning level reading comprehension, vocabulary acquisition and writing skills development for the ESL student who is still developing fluency. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>ESL 79</b> <b>Intermediate Sentence Structure: Spoken English</b> <i>Prerequisite: Successful completion of ESL 372 or ESL 373 or ESL 374. Course Advisory: ESL Assessment Test Score: At or above Level 2.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ESL 373</b> <b>ESL Basic Oral Communication Skills</b> <i>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.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>ESL 87</b> <b>Advanced Sentence Structure: Written English</b> <i>Prerequisite: Successful completion of ESL 78 or ESL 79 or ESL Assessment Test score: Level 1.</i> 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 79. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>ESL 374</b> <b>ESL Basic Grammar A</b> <i>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.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>

# Ethnic Studies

Fine & Applied Arts/Behavioral Sciences Division

## 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.

## Required Courses

### *African-American Studies*

	Units
ENGL 33—Intro. Survey/ Black American Lit.	
OR	
ENGL 34—The Black Novel/Drama in America	3
SOCSC 28—Intro to African Studies	3
HIST 28 or 29—African-American History	3
SOCSC 22—Ethnic, Racial, and Minority Group Relations in Harmony and Conflict	3
SOCIO 23—Sociology of African-Americans	
OR	
SOCSC 23—The African-American Family	3
Any course listed in any Ethnic Studies major	<u>3</u>
	18

### *Asian-American Studies*

	Units
ENGL 37—Asian Literature	3
HIST 32—History of the Philippines	3
SOCSC 22—Ethnic, Racial, and Minority Group Relations in Harmony and Conflict	3
SOCSC 26—Filipino-American Experience	3
Any courses listed in any Ethnic Studies Major	<u>6</u>
	18

### *Latino Studies*

	Units
ENGL 35—Intro. to Chicano Literature	3
SOCSC 22—Ethnic, Racial, and Minority Group Relations in Harmony and Conflict	3
SOCSC 25—Mexican-American Experience	3
SPAN 1 or 2 or 3 or 4 (one course) (5 units)	
OR	
HIST 30—History of Mexico (3 units)	
OR	
HIST 31— Mexican-American History (3 units)	3-5
Any courses listed in the Ethnic Studies Program	<u>6</u>
	18-20

## *Native-American Studies*

	<b>Units</b>
ENGL 32—Native American Literature	3
HIST 25—Intro to Native America Studies	3
SOCSC 22—Ethnic, Racial, and Minority Group Relations in Harmony and Conflict	3
SOCSC 27—Native American Experience	3
Any courses listed in any Ethnic Studies Major	6
	<b>18</b>

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## *Ethnic Studies Combination*

	<b>Units</b>
AMST 1 or 2—An Interdisciplinary Study of American Culture	3
SOCSC 22—Ethnic, Racial, and Minority Group Relations in Harmony and Conflict	3
SPAN 1, 2, 3, or 4 (one course)	5
Electives selected from the following list	<u>12</u>
	<b>23</b>

**Select 12 units from the following** (all 3-unit courses):

ENGL 32—Native American Literature  
ENGL 33—Intro. Survey of Black-American Lit.  
ENGL 34—Black Novel & Drama in America  
ENGL 35—Intro. to Chicano Literature  
ENGL 36—Survey of Amer. Multi-Ethnic Lit.  
HIST 25—Intro to Native American Studies  
HIST 28 or 29—African-American History  
HIST 30—History of Mexico  
HIST 31—Mexican-American History  
HIST 32—History of the Philippines  
MUSIC 7—Jazz and Popular Music in America:  
Ragtime to Rock  
PSYCH 24—Psych. of African-Americans  
SOCIO 23—Sociology of African-Americans  
SOCSC 25—Mexican-Amer. Exper.  
SOCSC 26—Filipino-Amer. Exper.  
SOCSC 27—Native-Amer. Exper.

### **Recommended Electives for all Ethnic Studies Programs**

AMST 1, 2  
ANTH 2  
COUN 55  
ENGL 32, 37  
ENGL 48 (Topics dealing with ethnic groups)  
HIST 30  
JAPAN 101, 102  
PHLOS 31, 32  
POLSC 5  
SOCSC 28, 48 (Topics dealing with ethnic groups)  
SOCIO 2  
SPAN 25  
TAG 101, 102  
THEA 13



<b>FASHD 65</b> <b>Alterations and Fit in Ready-to-Wear</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>One-half hour lecture, one and one-half hour lab.</i>	<b>1 Unit</b>	<b>FASHD 152</b> <b>Special Clothing Projects</b> The study of specialized areas of clothing construction including stage costume, historical costume, flat pattern design, tailoring and adaptive sewing techniques for persons with physical or learning limitations. An optional-units, individually contracted course. Students contract to spend 34 hours in the classroom completing their contract goals for 1 unit, 68 hours in the classroom for 2 units, and 85 hours in the classroom for 3 units. Evaluation is based upon written examinations, clothing project, and classroom participation. May be repeated to a maximum of 9 units, including initial enrollment. <i>Two hours lecture, three hours lab.</i>	<b>1, 2, or 3 Units</b>
<b>FASHD 66</b> <b>Fashion Design by Flat Pattern and Draping</b> <i>Course Advisories: SCC minimum English and math standards.</i> The creation of fashion design through flat pattern and draping. Evaluation is based on written examination, design notebook, garments constructed, class participation. Repeatable 1 time. <i>Three hours lecture, three hours lab.</i>	<b>4 Units</b>		
<b>FASHD 67</b> <b>Designing Children's Clothes</b> <i>Course Advisories: SCC minimum English and math standards.</i> The study of clothing design for children. Evaluation is based on classroom participation and written examinations. <i>Eight hours total for the semester.</i>	<b>.5 Unit</b>		
<b>FASHD 68</b> <b>CAD in Apparel Design</b> <i>Course Advisories: SCC minimum English and math standards and computer experience.</i> Teaches the use of the computer in apparel design. Students will create patterns for a size range, develop and print a production cutting marker. <i>Two hours lecture, four hours lab.</i>	<b>3 Units</b>		
<b>FASHD 100</b> <b>Fashion I</b> An intensive, short-term course for professionals and students who wish to learn about recent research and developments in design and production methods. <i>Eight hours total for the semester.</i>	<b>.5 Unit</b>		
<b>FASHD 104</b> <b>Beginning Clothing Construction</b> <i>Course Advisories: SCC minimum English and math standards.</i> The study of clothing construction techniques for students with little or no experience in sewing. Evaluation is based on written examinations, construction skills, and classroom participation. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>		

# Fashion Merchandising

Fine & Applied Arts/Behavioral Sciences Division

## Program Description

An inter-departmental program offering a two-year curriculum. Graduates may elect to continue their studies at a four-year school or enter the industry directly. The graduate with a major in Fashion Merchandising should expect an entry level training position leading toward goals such as assistant buyer, display director, department manager, fashion coordinator, or store owner. Both full and part-time study options are available.

## Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained by completing the 30-31-unit major listed below. The Associate in Science Degree may be obtained by completing a total of 60 units, including the major, the general education requirements, and electives.

## Required Courses

	<b>Units</b>	FASHD 60—Clothing Selection	
FASHM 53—Fashion Merchandising	3	OR	
FASHM 54—Visual Merchandising	3	INTDS 50—Interior Design	3
FASHM 56—Fashion Buying & Department Management Procedures	3	MKT 171—Marketing	
FASHM 57—Fashion Sales Promotion	3	OR	
FASHM 59—Fashion Coordination	3	ECON 1—Principles of Economics	3
BUS 181—Business Mathematics (3 units)		MKT 174—Retail Merchandising	
OR		OR	
ACCT 1—Prin./Accounting-Fin. (4 units)	3-4	BUS 5—Introduction to Business	3
FASHD 31—Textiles	3		30-31
		<b>Recommended Electives:</b>	
		ART 58	
		FASHM 55	
		OCCED 90, 91	

<p><b>FASHM 53</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Fashion Merchandising</b>  <i>Course Advisory: SCC minimum English standard. An introduction to the field of Fashion Merchandising and the function of same at all levels of the fashion business. Reading of the text and trade publications plus a survey of merchandising applications in design, manufacturing, retailing, and sales promotion of fashion goods are required. Three hours lecture.</i></p>	<p><b>FASHM 56</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Fashion Buying and Department Management Procedures</b>  <i>Course Advisories: SCC minimum English and math standards. Covers the buying and management practices, procedures, activities, consideration and techniques that are involved in the management of fashion departments and the purchasing of fashion merchandise. Designed to prepare future department managers, small store owners, and applicants to executive level training programs in all types of retail businesses specializing in fashion apparel and/or related items. Three hours lecture.</i></p>
<p><b>FASHM 54</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Visual Merchandising</b>  <i>Course Advisories: SCC minimum English and math standards. An introduction to the visual presentation of fashion merchandise as a sales promotion tool. Content includes the principles of design, color and lighting. Emphasis is given to materials, props, equipment, and fixtures used in both window and store interior display. Three hours lecture.</i></p>	<p><b>FASHM 57</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Fashion Sales Promotion</b>  <i>Course Advisory: SCC minimum English standard. An overview of the techniques involved in the promotion of fashion merchandise. Covers the specific areas of personal selling, fashion advertising and fashion show production. Three hours lecture.</i></p>
<p><b>FASHM 55</b> <span style="float: right;"><b>1 Unit</b></span></p> <p><b>Visual Merchandising Lab</b>  <i>Prerequisite: FASHM 54 (may be taken concurrently). Involves the application of visual merchandising theory as this relates to designing, developing and building a variety of displays. Interior as well as window displays are completed. Beginning students complete basic displays that are simple to execute. Intermediate and advanced students complete displays which require an increased level of proficiency and expertise to plan and execute. Repeatable 2 times. Three hours lab.</i></p>	<p><b>FASHM 59</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Fashion Coordination</b>  <i>Involves the coordination of all aspects of sales promotion activities that may be used by a manufacturer or retailer. Students must develop a coordinated promotional package that includes advertising, display, a fashion show and special events. Three hours lecture.</i></p>

# Film and Television

Fine & Applied Arts/Behavioral Sciences Division

## 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.

## Required Courses

	Units	Recommended Electives:
CINMA 10—The Art of the Cinema	3	ART 10
CINMA 15—Film Production	3	CINMA 11
TV 50—Survey of Broadcasting	3	JOURN 11
TV 55—Beginning Television Production	3	MUSIC 8
TV 56—Advanced Television Production		PHOTO 30
OR		SPEECH 15
CINMA 16—Film Production	3	THEA 1, 2, 10, 48, 50, 98
TV 60—Television & Film Writing	3	TV 61, 98, 99
	18	

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## Cinematography

### CINMA 10 3 Units

#### The Art of the Cinema

*Course Advisory: SCC minimum English standard.* An introduction to film history, aesthetic principles and production techniques of motion pictures. Important cinematic styles and trends are examined and representative films of major American and foreign film directors are viewed. Written exams, film screenings and film criticism are required. *Three hours lecture.*

### CINMA 11 3 Units

#### American Cultures in Film

*Course Advisory: ENGL 1.* 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.*

### CINMA 15 4 Units

#### Film Production

*Prerequisite: CINMA 10 or concurrent enrollment.*

An introduction to 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 films, film exercises and written work.

*Three hour lecture, three hours weekly by arrangement.*

### CINMA 16 4 Units

#### Film Production

*Prerequisite: CINMA 15 or concurrent enrollment.* 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

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## Television

### TV 50 3 Units

#### Survey of Broadcasting

*Course Advisory: SCC minimum English standard.*

Introduction to radio and television as mediums of mass communication. The history, development and structure of radio and television are studied, and their impact on society and culture. Students are required to demonstrate knowledge of course content through written tests and projects. *Three hours lecture.*

### TV 55 3 Units

#### Beginning Television Production

*Prerequisite: TV 50 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 56 3 Units

#### Advanced Television Production

*Prerequisite: TV 55 or previous television production experience.* 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. *Two hours lecture, two hours lab.*

### TV 60 3 Units

#### Television & Film Writing

*Course Advisory: ENGL 1.* 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 61 3 Units

#### Advanced Film Writing

*Prerequisite: TV 60 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 99 1-3 Units

#### Telecommunications 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.*

#### Special Topics

These courses, numbered 98, 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.

## 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 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. (The individual course descriptions may be found under the appropriate disciplines.)

## Required Courses

	<b>Units</b>
ART 10—Art Appreciation	3
MUSIC 7—Jazz and Popular Music in America: Ragtime to Rock	
OR	
MUSIC 8—Music Appreciation	3
THEA 1—Principles & Theory of Acting	
OR	
THEA 10—History of Theatre I	3
TV 50—Survey of Broadcasting	
OR	
CINMA 10—The Art of the Cinema	3
<b>Plus 3 units from the following:</b>	3
MUSIC 5—Music Fundamentals (3 units)	
MUSIC 10—Concert Band (2 units)	
MUSIC 14—Jazz Ensemble (2 units)	
MUSIC 20—Choir (2 units)	
MUSIC 22—Musical Theater (1-3 units)	
MUSIC 25—Chamber Choir (2 units)	
MUSIC 26—Vocal Jazz Ensemble (2 units)	
MUSIC 27,28,29,30—Piano (1 unit each)	
<b>Plus 3 units from the following:</b>	3
ART 4—Life Drawing (2-3 units)	
ART 6—Design (3 units)	
ART 15—Intro. to Drawing (2 units)	
ART 23—Intro./Ceramics: Hand Building (2-3 units)	
ART 26—Intro./Ceramics: Wheel Throwing (2-3 units)	
ART 31—Sculpture (2-3 units)	
	18
<b>Recommended Electives:</b>	
SPEECH 1, 15	
PHOTO 148	
THEA 3, 5, 7	
TV 55	

# Fire Technology

Career Technical Education Division

## 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 with a grade of "C" or better in each course, the general education requirements, and electives.

## Required Courses

	Units		Units
*FIRE 50—Fire Protection Organization	3	<b>Select 12 units (continued)</b>	
FIRE 51—Fire Behavior & Combustion	3		
FIRE 53—Fire Prevention Technology	3		FIRE 134—Fire Prevention 1A (2 units)
FIRE 54—Fire Protection Equipment & Systems	3		FIRE 135—Fire Prevention 1B (2 units)
FIRE 55—Fund. of Fire Service Operations	3		FIRE 140—Fire Technology Academy (18 units)
FIRE 56—Building Construction for the Fire Serv	3		FIRE 145—Fire Investigation I (2 units)
	18		FIRE 146—Fire Investigation II (2 units)
			FIRE 148Q-U—Special Topics (2 units/ea)
			FIRE 150—Fire Command 1A (2 units)
			FIRE 151—Fire Command 1B (2 units)
<b>Select 12 units from the following:</b>	12	FIRE 155—Incident Command 1 (.5 unit)	
ECTRN 102—Electrical Safety (1 unit)		FIRE 161—Fire Management 1 (2 units)	
FIRE 83—Fire Candidate Phys. Fitness (2 units)		FIRE 170—Fire Service Instructor 1A (2 units)	
*FIRE 102—Fire Service Safety Practices (3 units)		FIRE 171—Fire Service Instructor 1B (2 units)	
FIRE 112—Hazardous Materials (3 units)		FIRE 250—Logistics Section Chief-I450 (3 units)	
FIRE 113—Wildland Firefighter Academy (6 units)		FIRE 251—Supply Unit Leader SEMS/ICS (2 units)	
FIRE 114—Fire Apparatus Maintenance (3 units)		OCCED 90—Occupational Work Experience (4 units)	
FIRE 117—Confined Space Awareness (2 units)		<b>Total required units:</b>	30
FIRE 118—Confined Space Rescue (2 units)			
FIRE 119—Trench Rescue (2 units)			

\*Fire service personnel may take Fire Technology electives in lieu of these courses providing they are a current EMT and CPR card holder.

### *Information on State Fire Marshal Certification*

The following Solano College courses satisfy the *course* requirements for the indicated State Fire Marshal Certification:

*Investigator I*—FIRE 145 & 146  
*Public Education Officer I*—FIRE 134 & 135  
*Fire Instructor I*—FIRE 170 & 171  
*Prevention Officer I*—FIRE 134, 135 & 136  
*Prevention Officer II*—FIRE 174, 196, 176  
*Chief Officer*—FIRE 165, 166, 167, 168, 185, 186, 187, 188, 189

## 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.

### Required Courses

	Units	
FIRE 50—Intro. to Fire Technology	3	OCCED 91
FIRE 102—Fire Service Safety Practices	3	FIRE 114
FIRE 112—Hazardous Materials I	3	
FIRE 115—Hazardous Waste Operations	2	
FIRE 116—Hazardous Waste Management	3	

	Units
FIRE 123—Fire Serv. Principles & Procedures	1 3
INDMG 172—Industrial Safety	
OR	
INDMG 173—Occupational Safety & Health	3
	20

### Recommended Electives

### Job-Direct Certificate Requirements

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

<u>Hazmat Worker</u>	Units
<b>Required Courses</b>	
FIRE 115—Hazardous Waste Operations	2
FIRE 128—Emergency Care of the Sick and Injured	1
	3

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<b>FIRE 50</b>	<b>3 Units</b>
<b>Fire Protection Organization</b>	
<i>Course Advisory: SCC minimum English standard.</i>	
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. <i>Three hours lecture.</i>	

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<b>FIRE 51</b>	<b>3 Units</b>
<b>Fire Behavior and Combustion</b>	
<i>Course Advisory: SCC minimum English standard.</i>	
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. <i>Three hours lecture.</i>	

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# Fire Technology

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<b>FIRE 53</b> <b>Fire Prevention Technology</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>FIRE 83</b> <b>Fire Candidate Physical Fitness</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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 83) <i>One hour lecture, two or three hours activity.</i>	<b>2 or 2.5 Units</b>
<b>FIRE 54</b> <b>Fire Protection Equipment and Systems</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>FIRE 102</b> <b>Fire Service Safety Practices</b> <i>Course Advisory: Eligibility for ENGL 1.</i> Designed to provide basic skills in assessing environmental and fire dangers in the home, at the fire station, on the fire ground, on wildland fires, or while operating a fire vehicle. Successful students will receive a NWCG Fire Safety Officer Certificate. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>FIRE 55</b> <b>Fundamentals of Fire Service Operations</b> <i>Course Advisory: SCC minimum English standard.</i> Presents the fundamentals of fire department organization, management, and resources, and the use of those resources to control various emergencies. 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>FIRE 112</b> <b>Hazardous Materials I</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>FIRE 56</b> <b>Building Construction for the Fire Service</b> <i>Course Advisory: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>FIRE 113</b> <b>Wildland Firefighter Academy</b> <i>Course Advisory: SCC minimum English standard.</i> Presents the principles, safety requirements and techniques of wildland fire prevention, behavior and control. Covers legal areas of wildland fire protection and mutual aid for wildland fires. Recommended for fire technology, forestry, conservation and wildlife majors. Successful completion of this course will result in the student obtaining the following NWCG certificates required by federal wildland firefighting agencies and Seasonal Firefighter Certificate of Completion as required by the California Department of Forestry and Fire Protection (CDF): S-190; S-130/S-131; S-212; Basic California Wildland Firefighter (CDF). <i>Six hours lecture.</i>	<b>6 Units</b>
		<b>FIRE 114</b> <b>Fire Apparatus Maintenance</b> <i>Course Advisories: Eligibility for ENGL 1 and SCC minimum math standards.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>

<b>FIRE 115</b> <b>Hazardous Waste Operations</b> <i>Course Advisories: SCC minimum English and math standards. 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. Two hours lecture, one hour lab.</i>	<b>2 Units</b>	<b>FIRE 123</b> <b>Fire Service Principles and Procedures I</b> 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 (1 week course).</i>	<b>1 Unit</b>
<b>FIRE 116</b> <b>Hazardous Substance Management</b> <i>Course Advisory: SCC minimum English standard. 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. Three hours lecture.</i>	<b>3 Units</b>	<b>FIRE 124</b> <b>Fire Service Principles and Procedures II</b> <i>Course Advisory: SCC minimum English standard. Presents the application of the basic skills in connecting, elevating and controlling hose lines and streams. Sixteen hours lecture, eight hours lab (1 week course).</i>	<b>1 Unit</b>
<b>FIRE 117</b> <b>Confined Space Awareness</b> <i>Course Advisory: SCC minimum English and standards. 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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 125</b> <b>Fire Service Principles and Procedures III</b> <i>Course Advisory: SCC minimum English standard. 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. Sixteen hours lecture, five hours lab (1 week course).</i>	<b>1 Unit</b>
<b>FIRE 118</b> <b>Confined Space Rescue</b> <i>Course Advisory: SCC minimum English and standards. 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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 126</b> <b>Fire Service Principles and Procedures IV</b> <i>Course Advisory: SCC minimum English standard. 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. Sixteen hours lecture, five hours lab (1 week course).</i>	<b>1 Unit</b>
<b>FIRE 119</b> <b>Trench Rescue</b> <i>Course Advisory: SCC minimum English and standards. 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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 127</b> <b>Fire Service Principles and Procedures V</b> <i>Course Advisory: SCC minimum English standard. 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. Sixteen hours lecture, five hours lab (1 week course).</i>	<b>1 Unit</b>

# Fire Technology

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<b>FIRE 128</b> <b>Emergency Care of the Sick and Injured</b> <i>Course Advisory: SCC minimum English standard.</i> Designed to provide essential information on rescue work, to develop a knowledge of how to diagnose rescue problems and to care for respiratory, circulatory, childbirth, heat, and other emergencies; to care for flesh injuries; and to transport the sick and injured. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab (1 week course).</i>	<b>1 Unit</b>	<b>FIRE 135</b> <b>Fire Prevention 1B</b> <i>Course Advisory: SCC minimum English standard.</i> Continuation of Fire Prevention I with emphasis on the California Administrative Code, Uniform Building Code and Title 19. <i>Forty hours lecture (1 week course).</i>	<b>2 Units</b>
<b>FIRE 129</b> <b>Fire Control I</b> <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 (1 week course).</i>	<b>1 Unit</b>	<b>FIRE 136</b> <b>Fire Prevention III</b> <i>Course Advisory: SCC minimum English standard.</i> An in-depth survey of the fire prevention regulations and problems surrounding the storage, transfer and handling of flammable liquids and gases. Topics include installation practices for above ground and underground tanks, hazards of transfer and finishing processes, piping and valve requirements, venting procedures and devices, drainage and diking systems, investigation of leaks, and maintenance procedures. Repeatable 2 times. <i>Forty hours lecture (1 week course).</i>	<b>2 Units</b>
<b>FIRE 130</b> <b>Fire Control II</b> <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 (1 week course).</i>	<b>1 Unit</b>	<b>FIRE 140</b> <b>Fire Technology Academy</b> <i>Prerequisite: FIRE 50; FIRE 128 or EMT 212. NOTE: Course Advisories: SCC minimum English and math standards. NOTE: 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 in this questionnaire, a medical examination may be required.</i> A course containing the contents of FIRE 83, 113, 115, 123, 124, 125, 126, 127, 129, 130, 131 and 155. Upon successful completion, the student will become eligible for certification by the State Fire Marshall's Office as a Fire Fighter I. <i>Thirty hours lecture, ten hours lab (9 week course).</i>	<b>18 Units</b>
<b>FIRE 131</b> <b>Fire Control III</b> <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 (1 week course).</i>	<b>1 Unit</b>	<b>FIRE 145</b> <b>Fire Investigation I</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Forty hours lecture (1 week course).</i>	<b>2 Units</b>
<b>FIRE 132</b> <b>Pump Operation</b> <i>Course Advisory: SCC minimum English standard.</i> Presents the principles of hydraulics as they relate to pumps used in fire fighting. Repeatable 3 times. <i>Sixteen hours lecture, five hours lab (1 week course).</i>	<b>1 Unit</b>		
<b>FIRE 134</b> <b>Fire Prevention 1A</b> <i>Course Advisory: SCC minimum English standard.</i> Study of federal, state, county, and local fire protection legislation; fire prevention codes, fire protection aspects of building codes, the role of the State Fire Marshal in fire protection legislation and enforcement, and fire protection legislation application and enforcement. <i>Forty hours lecture (1 week course).</i>	<b>2 Units</b>		

<b>FIRE 146</b> <b>Fire Investigation II</b> <i>Course Advisory: SCC minimum English standard. A continuation of Fire Investigation with emphasis on case preparation and courtroom demeanor. Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 165</b> <b>Fire Management 2A Organization and Development</b> <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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>
<b>FIRE 150</b> <b>Fire Command 1A</b> <i>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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 166</b> <b>Fire Management 2B Finance for Chief Officer</b> <i>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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>
<b>FIRE 151</b> <b>Fire Command 1B</b> <i>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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 168</b> <b>Fire Management 2D Master Planning</b> <i>Course Advisories: SCC minimum English and math standards. Fire service program planning, master planning, forecasting, systems analysis, and policy analysis. Forty hours lecture (1 week course).</i>	<b>2 Units</b>
<b>FIRE 155</b> <b>Incident Command I</b> <i>Course Advisories: SCC minimum English and math standards. 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 (1 week course).</i>	<b>.5 Unit</b>	<b>FIRE 169</b> <b>Fire Management 2E Issues and Concepts</b> <i>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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>
<b>FIRE 161</b> <b>Fire Management I</b> <i>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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 170</b> <b>Fire Service Instructor 1A</b> <i>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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>
		<b>FIRE 171</b> <b>Fire Service Instructor 1B</b> <i>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. Forty hours lecture (1 week course).</i>	<b>2 Units</b>

# Fire Technology

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- FIRE 174** **2 Units**  
**Prevention 2A Systems and Building Components**  
*Prerequisite: FIRE 54. 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. *Forty hours lecture (1 week course).*
- FIRE 176** **2 Units**  
**Prevention 2C Special Hazard Occupancies**  
*Prerequisite: FIRE 53. 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. *Forty hours lecture (1 week course).*
- FIRE 177** **2 Units**  
**Investigation 2A Criminal & Legal Procedures**  
*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. *Forty hours lecture (1 week course).*
- FIRE 180** **2 Units**  
**Fire Science Public Education Officer I**  
*Course Advisory: SCC minimum English standard.* 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 3 times. *Forty hours lecture (1 week course).*
- FIRE 185** **2 Units**  
**Fire Command 2A Command Tactics at Major Fires**  
*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. *Forty hours lecture (1 week course).*
- FIRE 186** **2 Units**  
**Fire Command 2B Command of Major HAZ-MAT Incidents**  
*Prerequisite: FIRE 185. 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. *Forty hours lecture (1 week course).*
- FIRE 187** **2 Units**  
**Fire Command 2C High Rise Emergencies**  
*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. *Forty hours lecture (1 week course).*
- FIRE 188** **2 Units**  
**Fire Command 2D Disaster Planning**  
*Prerequisite: FIRE 185. 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. *Forty hours lecture (1 week course).*
- FIRE 189** **2 Units**  
**Fire Command 2E**  
*Prerequisite: FIRE 140 or employment as a full-time fire fighter. Course Advisories: SCC minimum English and math standards.* A study of command techniques used in selecting and utilizing resources during wild land fire fighting. This is a component of the State Fire Marshall's Advanced Fire Command series. *Two and one-half hours lecture.*
- FIRE 193** **2 Units**  
**Fire Prevention 2A**  
*Course Advisory: SCC minimum English standard.* Designed for personnel who are seeking employment or are currently employed in the fire service or other industrial related fields. Emphasis will be placed on utilizing codes relative to extinguisher or alarm systems and the evaluation of fire resistive building construction. *Forty hours lecture (1 week course).*

<b>FIRE 195</b> <b>Fire Prevention 2C</b> <i>Course Advisory: SCC minimum English standard.</i> Explores fire prevention problems of a unique or difficult nature. Analyzes solutions to specialized fire prevention situations. <i>Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 501</b> <b>Hazardous Materials Handling</b> Indoctrinates fire service personnel in the handling of hazardous materials. Includes factors affecting handling, types of materials, evacuations procedures, and required assistance. <i>Eight hours lecture (1 week course).</i>	<b>Non-Credit-Only</b>
<b>FIRE 196</b> <b>Prevention 2B Interpreting Codes</b> <i>Prerequisite: FIRE 53. Course Advisories: SCC minimum English and math standards.</i> 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. <i>Forty hours lecture (1 week course).</i>	<b>2 Units</b>	<b>FIRE 502</b> <b>Hazardous Materials, First Responder</b> Indoctrinates fire service personnel in hazardous materials prevention, preparedness, emergency response and recovery. Repeatable 3 times. <i>Sixteen hours lecture (1 week course).</i>	<b>Non-Credit-Only</b>
<b>FIRE 250</b> <b>Logistics Section Chief-I450</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Forty-eight hours lecture (1 week course).</i>	<b>3 Units</b>	<b>Special Topics</b> These courses, numbered 148, 248, or 548 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Specific information will vary with each course.	
<b>FIRE 251</b> <b>Supply Unit Leader SEMS/ICS</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>		
<b>FIRE 500</b> <b>Hazardous Materials Awareness</b> Designed to reduce the potential for injury and mortality among emergency services personnel who are the initial responders to emergencies where hazardous materials are present and a factor in the emergency. <i>Eight hours lecture (1 week course).</i>	<b>Non-Credit-Only</b>		

# Foreign Languages

Humanities Division

## 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 in Arts 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.

### Required Courses

<u>French</u>	<u>Units</u>	<u>Spanish</u>	<u>Units</u>
FRNCH 1—First Semester French	5	SPAN 1—First Semester Spanish	5
OR		OR	
FRNCH 31 & 32—First Sem. French (3 & 3 units)	6	SPAN 31 & 32—First Sem. Spanish (3 & 3 units)	6
FRNCH 2—Second Semester French	5	SPAN 2—Second Semester Spanish	5
OR		OR	
FRNCH 33 & 34—Second Sem. French (3 & 3 units)	6	SPAN 33 & 34—Second Sem. Spanish (3 & 3 units)	6
FRNCH 3—Third Semester French	5	SPAN 3—Third Semester Spanish	5
FRNCH 4—Fourth Semester French	5	SPAN 4—Fourth Semester Spanish	5
FRNCH 11—Conversational French	3	SPAN 11—Conversational Spanish	3
FRNCH 12—Intermediate French Conversation	3	SPAN 12—Intermediate Spanish Conversation	3
<u>German</u>		<u>Latin</u>	
GERMN 1—First Semester German	5	LATIN 1—Latin Fundamentals	3
OR		LATIN 2—Latin Fundamentals	3
GERMN 31 & 32—First Sem. German (3 & 3 units)	6	LATIN 3—Latin Fundamentals	3
GERMN 2—Second Semester German	5		
OR			
GERMN 33 & 34—Second Sem German (3 & 3 units)	6		
GERMN 3—Third Semester German	5		
GERMN 4—Fourth Semester German	5		
GERMN 11—Conversational German	3		
GERMN 12—Intermediate German Conversation	3		

## Foreign Languages, Individual

### Program Description

This program introduces the fundamentals of language learning (listening, speaking, reading, writing, and culture) with emphasis on language production, grammar, syntax, vocabulary acquisition, and exposure to the culture. This program requires study be accomplished in one language only.

### Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 18 units in **one** of the languages listed below, the general education requirements, and electives.

### Required Courses

#### *Foreign Language, French*

	<b>Units</b>
FRNCH 1—First Semester French	5
FRNCH 2—Second Semester French	5
FRNCH 3—Third Semester French	5
FRNCH 4—Fourth Semester French	5
FRNCH 11—Conversational French	3
FRNCH 12—Intermediate French Conversation	3
FRNCH 31—First Sem. French, Part I	3
FRNCH 32—First Sem. French, Part II	3
FRNCH 33—Second Sem. French, Part I	3
FRNCH 34—Second Sem. French, Part II	3
FRNCH 49—French Honors	1-3

#### *Foreign Language, German*

GERMN 1—First Semester German	5
GERMN 2—Second Semester German	5
GERMN 3—Third Semester German	5
GERMN 4—Fourth Semester German	5
GERMN 11—Conversational German	3
GERMN 12—Interm. German Conversation	3
GERMN 31—First Sem. German, Part I	3
GERMN 32—First Sem. German, Part II	3
GERMN 33—Second Sem. German, Part I	3
GERMN 34—Second Sem. German, Part II	3
GERMN 49—German Honors	1-3

# Foreign Languages

## Foreign Languages, Individual (continued)

### Foreign Language, Spanish

	Units
SPAN 1—First Semester Spanish	5
SPAN 2—Second Semester Spanish	5
SPAN 3—Third Semester Spanish	5
SPAN 4—Fourth Semester Spanish	5
SPAN 11—Conversational Spanish	3
SPAN 12—Interm. Spanish Conversation	3
SPAN 25—Intro to Latin-American Culture	3
SPAN 31—First Semester Spanish, Part I	3
SPAN 32—First Semester Spanish, Part II	3
SPAN 33—Second Sem. Spanish, Part I	3
SPAN 34—Second Sem. Spanish, Part II	3
SPAN 49—Spanish Honors	1-3
SPAN 61M—Beg. Spanish, Part 1 for Medical Workers	3
SPAN 62M—Beg. Spanish, Part 2 for Medical Workers	3
SPAN 63M—Beg. Spanish, Part 3 for Medical Workers	3
SPAN 64M—Beg. Spanish, Part 4 for Medical Workers	3
SPAN 1S—Spanish for Spanish Speakers 1	5
SPAN 2S—Spanish for Spanish Speakers 2	5

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## French

### FRNCH 1

5 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 FRNCH 31 and/or 32. 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. (CAN FREN 2) (FRNCH 1 & 2 = CAN FREN SEQ A). *Five hours lecture, one hour weekly of listening to tapes.*

### FRNCH 31

3 Units

#### First Semester French, Part I

*Prerequisites: NOTE: Not open for credit to students who have received credit for FRNCH 1 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 I requirement of some universities, transfer students must complete the sequence of FRNCH 31-32. 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.*

### FRNCH 32

3 Units

#### First Semester French, Part II

*Prerequisites: FRNCH 31 or one year of high school French. NOTE: Not open for credit to students who have completed FRNCH 1 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 I requirement of some universities, transfer students must complete the sequence of FRNCH 31 and 32. Continuation of FRNCH 31 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

<b>FRNCH 2</b> <b>Second Semester French</b> <i>Prerequisites: FRNCH 1, or FRNCH 31 and 32, or two years of high school French. NOTE: Not open to students who have completed FRNCH 33 and/or 34. Continuation of FRNCH 1 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. (CAN FREN 4) (FRNCH 1 &amp; 2 = CAN FREN SEQ A). Five hours lecture, one hour weekly of listening to tapes.</i>	<b>5 Units</b>	<b>FRNCH 3</b> <b>Third Semester French</b> <i>Prerequisites: FRNCH 2, or FRNCH 34, or three years of high school French. Continuation of FRNCH 2, FRNCH 3 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. (CAN FREN 8) (FRNCH 3 &amp; 4 = CAN FREN SEQ B). Five hours lecture.</i>	<b>5 Units</b>
<b>FRNCH 33</b> <b>Second Semester French, Part I</b> <i>Prerequisites: FRNCH 1 or FRNCH 32. Not open for credit to students who have received credit for FRNCH 2. Continuation of FRNCH 1 (or FRNCH 32), 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. Three hours lecture.</i>	<b>3 Units</b>	<b>FRNCH 4</b> <b>Fourth Semester French</b> <i>Prerequisite: FRNCH 3. 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. (CAN FREN 10) (FRNCH 3 &amp; 4 = CAN FREN SEQ B). Five hours lecture.</i>	<b>5 Units</b>
<b>FRNCH 34</b> <b>Second Semester French, Part II</b> <i>Prerequisites: FRNCH 33. Not open for credit to students who have received credit for FRNCH 2. Continuation of FRNCH 33, 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. Three hours lecture.</i>	<b>3 Units</b>	<b>FRNCH 11</b> <b>Conversational French</b> <i>Prerequisite: FRNCH 2 or FRNCH 34 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.</i>	<b>3 Units</b>
		<b>FRNCH 12</b> <b>Intermediate French Conversation</b> <i>Prerequisite: FRNCH 11. Continuation of FRNCH 11, and is 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. Three hours lecture.</i>	<b>3 Units</b>

# Foreign Languages

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## German

### GERMN 1

5 Units

#### First Semester German

*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 GERMN 31 and/or 32. Course Advisory: SCC minimum English standard.* Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to the German culture. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. (CAN GERM 2) (GERMN 1 & 2 = CAN GERM SEQ A). *Five hours lecture, one hour weekly of listening to tapes.*

### GERMN 31

3 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 GERMN 1. NOTE: In order to fulfill the one-semester German I requirement of some universities, transfer students must complete the sequence of GERMN 31 and 32. 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.*

### GERMN 32

3 Units

#### First Semester German, Part II

*Prerequisites: GERMN 31 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 GERMN 1. NOTE: In order to fulfill the one-semester German I requirement of some universities, transfer students must complete the sequence of GERMN 31-32.* Continuation of GERMN 31, 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.*

### GERMN 2

5 Units

#### Second Semester German

*Prerequisites: GERMN 1, or GERMN 31 and 32, or two years of high school German or the equivalent. NOTE: Not open to students who have completed GERMN 33 and/or 34.* Continuation of GERMN 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. (CAN GERM 4) (GERMN 1 & 2 = CAN GERM SEQ A). *Five hours lecture, one hour weekly of listening to tapes.*

### GERMN 33

3 Units

#### Second Semester German, Part I

*Prerequisites: GERMN 1 or GERMN 32. NOTE: Not open for credit to students who have received credit for GERMN 2.* Continuation of GERMN 1 (or GERMN 32), 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.*

### GERMN 34

3 Units

#### Second Semester German, Part II

*Prerequisites: GERMN 33. Not open for credit to students who have received credit for GERMN 2.* Continuation of GERMN 33, 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.*

**GERMN 3****5 Units****Third Semester German**

*Prerequisite: GERMN 2, or GERMN 34, or three years of high school German.* Completes the students' introduction to the fundamentals of German, reviewing and refining many of the concepts covered in GERMN 1 and 2 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 East and West German, Austrian and Swiss writers. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. (CAN GERM 8) (GERMN 3 & 4 = CAN GERM SEQ B). *Five hours lecture.*

**GERMN 4****5 Units****Fourth Semester German**

*Prerequisite: GERMN 3 or four years of high school German.* Continues the review and expansion of students' knowledge of basic German begun in GERMN 3, 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 East and West German, Austrian and Swiss writers. Exams, quizzes, written assignments and completion of the lab manual will be used to evaluate student progress. (CAN GERM 10) (GERMN 3 & 4 = CAN GERM SEQ B). *Five hours lecture.*

**GERMN 11****3 Units****Conversational German**

*Prerequisite: GERMN 2 or GERMN 34 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. *Three hours lecture.*

**GERMN 12****3 Units****Intermediate German Conversation**

*Prerequisite: GERMN 11.* Continuation of GERMN 11, and is 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. *Three hours lecture.*

## Italian

**ITAL 31****3 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 32****3 Units****First Semester Italian, Part II**

*Prerequisite: ITAL 31. Course Advisory: SCC minimum English standard.* Continuation of ITAL 31 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.*

**ITAL 33****3 Units****Second Semester Italian, Part I**

*Prerequisite: ITAL 32. Course Advisories: SCC minimum English standard.* Continuation of ITAL 32 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 34****3 Units****Second Semester Italian, Part II**

*Prerequisite: ITAL 33. Course Advisory: SCC minimum English standard.* Continuation of ITAL 33 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

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## Japanese

**JAPAN 101** 3 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.*

**JAPAN 102** 3 Units

### Conversational Japanese

*Prerequisite: JAPAN 101.* A continuation of JAPAN 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.*

## Latin

**LATIN 1** 3 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.*

**LATIN 2** 3 Units

### Latin Fundamentals

*Prerequisite: LATIN 1.* 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.*

**LATIN 3** 3 Units

### Latin Fundamentals

*Prerequisites: LATIN 1 and 2.* 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.*

## Portuguese

**PORT 101** 3 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 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.*

## Spanish

**SPAN 1** 5 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 1S, or SPAN 31 and/or 32, 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. (CAN SPAN 2) (SPAN 1 & 2 = CAN SPAN SEQ A). *Five hours lecture, one hour weekly of listening to tapes.*

**SPAN 31** 3 Units

### First Semester Spanish, Part I

*Prerequisites: None. NOTE: Not open for credit to students who have received credit for SPAN 1, or SPAN 1S, or SPAN 61M, 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 1 requirement of some universities, transfer students must complete the sequence of Spanish 31 and 32. 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.*

# Foreign Languages

## SPAN 32

3 Units

### First Semester Spanish Part II

*Prerequisites: SPAN 31 or SPAN 61M. NOTE: Not open for credit to students who have received credit for SPAN 1, or SPAN 1S, or SPAN 62M, 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 1 requirement of some universities, transfer students must complete the sequence of Spanish 31 and 32.* Continuation of Spanish 31, 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 1S

5 Units

### Spanish for Spanish Speakers 1

*Prerequisite: Oral fluency in Spanish. NOTE: Not open for credit to students who have completed SPAN 1S, or SPAN 31 and/or 32, or SPAN 61M and/or 62M. 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 2

5 Units

### Second Semester Spanish

*Prerequisites: SPAN 1, or SPAN 1S, or SPAN 32, or SPAN 62M, or two years of high school Spanish. NOTE: Not open to students who have completed SPAN 2S, or SPAN 33 and/or 34, or SPAN 63M and/or 64M.* Continuation of Spanish 1, 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. (CAN SPAN 4) (SPAN 1 & 2 = CAN SPAN SEQ A). *Five hours lecture, one hour weekly of listening to tapes.*

## SPAN 33

3 Units

### Second Semester Spanish, Part I

*Prerequisites: SPAN 1, or SPAN 1S, or SPAN 32, or SPAN 62M. Not open for credit to students who have received credit for SPAN 2, SPAN 2S, or SPAN 63M.* Continuation of Spanish 1 (or Spanish 32), 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 34

3 Units

### Second Semester Spanish, Part II

*Prerequisites: SPAN 33 or SPAN 63M. NOTE: Not open for credit to students who have received credit for SPAN 2 or SPAN 2S.* Continuation of Spanish 33, 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 2S

5 Units

### Spanish for Spanish Speakers 2

*Prerequisite: SPAN 1S, or SPAN 1, or SPAN 31 and 32, or SPAN 61M and 62M, and oral fluency in Spanish. NOTE: Not open to students who have completed SPAN 2, or SPAN 33 and/or 34, or SPAN 63M and/or 64M. 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.*

# Foreign Languages

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## SPAN 3

5 Units

### Third Semester Spanish

*Prerequisites: SPAN 2, or SPAN 2S, or SPAN 34, or SPAN 64M, or three years of high school Spanish. A continuation of Spanish 1 and 2. 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. (CAN SPAN 8) (SPAN 3 & 4 = CAN SPAN SEQ B). Five hours lecture.*

## SPAN 4

5 Units

### Fourth Semester Spanish

*Prerequisites: SPAN 3 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. (CAN SPAN 10) (SPAN 3 & 4 = CAN SPAN SEQ B). Five hours lecture.*

## SPAN 11

3 Units

### Conversational Spanish

*Prerequisite: SPAN 2, or SPAN 2S, or SPAN 34, 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.*

## SPAN 12

3 Units

### Intermediate Spanish Conversation

*Prerequisite: SPAN 11. Continuation of Spanish 11, and is 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. Three hours lecture.*

## SPAN 25

3 Units

### Introduction to Latin-American Culture: An Exploration of Identity Through Essay, Film, and Short Story

*Prerequisite: SPAN 3. 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 61M

3 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 31, SPAN 1, or SPAN 1S. 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 62M

3 Units

### Beginning Spanish, Part 2 for Medical Workers

*Prerequisite: SPAN 61M or SPAN 31. Course Advisory: SCC minimum English standard. NOTE: Students who complete this course will not be able to get credit for SPAN 32, SPAN 1, or SPAN 1S. 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.*

## Foreign Languages

### SPAN 63M

3 Units

#### Beginning Spanish, Part 3 for Medical Workers

*Prerequisites: SPAN 62M, or SPAN 32, or SPAN 1, or SPAN 1S. Course Advisory: SCC minimum English standard. NOTE: Not open to students who have completed SPAN 2, or SPAN 2S, or SPAN 33.* Continuation of SPAN 62M, 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 64M

3 Units

#### Beginning Spanish, Part 4 for Medical Workers

*Prerequisite: SPAN 63M or SPAN 33. Course Advisory: SCC minimum English standard. NOTE: Not open to students who have completed SPAN 2, or SPAN 2S, or SPAN 34.* Continuation of SPAN 63M, 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.*

## Tagalog

### TAG 101

3 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 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.*

### FLANG 49

1-3 Units

#### Honors Program (French, German, Latin or Spanish)

*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 Dean based on instructor availability.* Independent study and research, by arrangement with the instructor, in specified fields of study in a foreign language, or creative writing in a foreign language. French, German and Spanish may be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

#### Special Topics

These courses, numbered 48 or 98, 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.

## Health Occupations Division

# 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. Graduates of the Program comply with the American Nurses Association code for Nursing Practice and the Nurse Practice Act of the state of California. 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. This program follows the policy of non-discrimination set forth by the Governing Board of Solano Community College.

## Associate in Science Degree

The Associate in Science Degree is awarded upon successful completion of the major and general education requirements.

## 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 Session prior to seeing a counselor individually. These sessions provide a basic understanding of the nursing program and the requirements for application. Students applying to the program may see any counselor; however, students transferring with numerous transcripts should make an appointment to see the Nursing Counselor.

### Application Procedures

#### Prerequisites

To be eligible to apply to the Registered Nursing Program, students must have completed the following four prerequisite courses with letter grades of "C" or better:

- ENGL 1 College Composition (3 units)
- BIOSC 6 Human Anatomy (5 units)
- BIOSC 5 Introductory Physiology (5 units)
- BIOSC 14 Principles of Microbiology (4 units)

Complete the following courses with letter grades of "C" or better prior to entering the second semester of the Nursing Program:

- NUTRI 10 Nutrition (3 units)
- HU DV 70 Lifespan Human Development (3 units)
- NURSE 52 Pharmacology (3 units)

We recommend that you complete the above three courses prior to entering the program to prevent overload and improve success in the first semester. It is highly recommended that ENGL 62 or the college reading requirement be met prior to entering the program.

#### Application Steps:

1. Complete an application to Solano Community College.
2. Attend a Registered Nursing Information Session.
3. Obtain all required transcripts. You must have official transcripts sent to the Office of Admissions.
4. See a counselor for an evaluation of major requirements and to receive the Nursing referral form verifying completion of prerequisites. Overall GPA must be at least 2.0.
5. Take referral form to the Health Occupations Division, Building 800 to receive a Nursing Application.

# Health Occupations

6. Submit completed application.
7. Eligibility to enter the Nursing Program will be determined by a 'composite score' which is a combination of: (a) overall college GPA, (b) English GPA, (c) core Biology (Anatomy, Physiology & Microbiology) GPA, and (d) core Biology course repetitions.
8. Once eligibility has been determined, qualified students will receive a wait list number.

**Prior to First Class Meeting, Students Must Have:**

1. Physical examination indicating physical fitness and freedom from illness with required immunizations.
2. Cardiopulmonary Resuscitation (CPR) for Health Care Providers card.
3. Attended an orientation meeting with nursing faculty to be arranged by Health Occupations.
4. Taken the reading assessment test or have met the reading requirement for graduation.
5. Provided a clear criminal background check and drug screen.

**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, 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.

## Required Courses

Nursing courses must be taken in sequence because one course is prerequisite to another.

	Units		Units
NURSE 58—Mediated Skills Dev. (Concurrent enrollment in NURSE 58 is required for each of the following Nursing courses except NURSE 52, 61 & 65.)	.5-1.5	<b>Second Year Courses</b>	
		NURSE 60—Nrsg. of Adults II/ Medical-Surgical Nsg.	5
		NURSE 61—Mental Health Nsg.	5
		NURSE 63—Nrsg. of Adults III/Adv. Med-Surgical Nsg. & Community Health Nursing	4.5
		NURSE 64—Issues and Trends in Nursing.	1.5
		NURSE 65—Role Transition, Management Theory & Practice	4
<b>First Year Courses</b>	<b>Units</b>	<b>Concurrent Courses</b>	
NURSE 50A—Fund. of Nursing	3	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.	
NURSE 50B—Basic Human Needs	3.5		
*HU DV 70—Lifespan Human Dev.	3		
*NUTRI 10—Nutrition	3		
*NURSE 52—Pharmacology for Health Care Professionals I	3		
NURSE 54—Maternal-Child Nrsg	5		
NURSE 55—Nursing of Adults I	5		
**PSYCH 1—Intro. to Psychology OR		ENGL 62 or meet the reading requirement	0-3
SOCSC 22—Ethnic, Racial, and Minority Group Relations in Harmony & Conflict	3	Communications course other than ENGL 1	3

\*Course must be completed prior to entry into NURSE 54/55

\*\*Course must be completed prior to entry into NURSE 60/61

In accordance with state law, the California Board of Registered Nursing (BRN) may deny licensure to an individual for crimes substantially related to the practice of nursing. Upon acceptance to the nursing program, any student who has had a conviction related to sex crimes, drug crimes (including DUI) and crimes of violence may need to contact the BRN regarding his/her status.

# Health Occupations

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## Career Mobility

The Career Mobility Program at Solano Community College provides an opportunity for qualified licensed vocational nurses to be admitted to the third semester of the Registered Nursing program. The 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 Information

Licensed vocational nurses have two career mobility options:

#### Associate Degree Option:

Applicants must complete prerequisites for the nursing program, science courses and the general education requirements for the Associate Degree. By choosing this option:

- You would complete a total of 49 to 52 units toward the 60 units required for the Associate Degree.
- You would be a graduate of an accredited ADN program.
- You would be eligible for RN licensure by endorsement in other states.

#### Prerequisites

To be eligible to apply to the Career Mobility Program Associate Degree Option, students must have completed:

- ENGL 1 - College Composition (3 units)
  - BIOSC 6 - Human Anatomy (5 units)
  - BIOSC 5 - Introductory Physiology (5 units)
  - BIOSC 14 - Principles of Microbiology (4 units)
  - NUTRI 10 - Nutrition (3 units)
  - HU DV 70 - Lifespan Human Development (3 units)
  - NURSE 52 - Pharmacology for Health Care Professionals I (3 units)
  - PSYCH 1 - Introduction to Psychology: Individual & Social Processes (3 units)
- OR
- SOCSC 22 - Ethnic, Racial, and Minority Group Relations in Harmony and Conflict (3 units)

NOTE: It is highly recommended that ENGL 62 or the college reading requirement be met prior to entering the program. 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 classes.

#### Thirty-Unit Option:

By choosing this option:

- You would complete a total of 29 to 30 units.
- You would not be a graduate of an Associate Degree Program.
- You would not be a graduate of the Solano College nursing program and may not wear the school pin.
- You would be eligible for licensure in California and may not be eligible for licensure in other states.

#### Prerequisites

- BIOSC 5 - Introductory Physiology (5 units)
- BIOSC 14 - Principles of Microbiology (4 units)

## Application Steps

1. Complete an application to Solano Community College.
2. Attend a Registered Nursing Information Session.
3. Obtain all required transcripts. You must have official transcripts sent to the Office of Admissions.
4. See a counselor for an evaluation of major requirements and to receive the Nursing referral form verifying completion of prerequisites. Overall GPA must be at least 2.0.
5. Take referral form to the Health Occupations Division, Building 800 to receive a Nursing Application.
6. Submit completed application.
7. Eligibility to enter the Nursing Program will be determined by a 'composite score' which is a combination of: (a) overall college GPA, (b) English GPA, (c) core Biology (Anatomy, Physiology & Microbiology) GPA, and (d) core Biology course repetitions.
8. Once eligibility has been determined, qualified students will receive a wait list number.

## Other Requirements

Upon admission to the program, students are required to enroll in NURSE 159 during the summer session.

### **Prior to First Class Meeting, Students Must Have:**

1. Physical examination indicating physical fitness and freedom from illness with required immunizations.
2. Cardiopulmonary Resuscitation (CPR) for Health Care Providers card.
3. Attended an orientation meeting with nursing faculty to be arranged by Health Occupations.
4. Taken the reading assessment test or have met the reading requirement for graduation.
5. Provide a clear criminal background check and drug screen.

### **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, 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.

In accordance with state law, the California Board of Registered Nursing (BRN) may deny licensure to an individual for crimes substantially related to the practice of nursing. Upon acceptance to the nursing program, any student who has had a conviction related to sex crimes, drug crimes (including DUI) and crimes of violence may need to contact the BRN regarding his/her status.

## **Job-Direct Certificate Requirements**

### **Certified Nursing Assistant**

**Units**

NURSE 200—Certified Nursing Assistant/Home Health Aide  $\frac{6}{6}$

### **Emergency Medical Technician I**

**Units**

EMT 212—Emergency Medical Technician I  $\frac{4.5-5}{4.5-5}$

# Nursing

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## Emergency Medical Technician I

EMT 212

4.5-5 Units

### Emergency Medical Technician (Basic)

*Prerequisites: Current BLS/CPR for Healthcare course completion card. Course Advisories: SCC minimum English and math standards; must be eighteen (18) years of age or older for certification (Title 22, Division 9, Chapter 2, California Code of Regulations). Based on state EMSA regulations, the goal of the EMT (Basic) course is 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. Course content includes: use of airway & ventilation devices during CPR; use of automated external defibrillator (AED); patient assessment (medical & trauma); management of shock & bleeding; use of bandages, splints & spinal immobilization; use of backboards & gurneys; management of emergency childbirth; monitoring IV solutions; assisting patients with home medications; safe removal of patients from vehicles; trauma & triage. Students completing the course for 4.5 units participate in lecture and lab practice activities throughout; students completing the course for 5.0 units additionally attend pre-assigned observation times with an emergency department and with an ambulance. Students successfully completing the course for 5.0 units are eligible to take the state EMS exam for certification. Certification enables students to qualify for employment with ambulance services, fire or rescue services, search and rescue crews, ski patrol or other related pre-hospital emergency care positions. (NOTE: By law, applicants for certification must be at least 18 years of age). Three and three-quarters hours lecture, three and three-quarters hours activity.*

EMT 213

1 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).*

## Professional Education

These courses are *not* part of the Registered Nursing Program.

NURSE 111

3 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.*

NURSE 159

2 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. A course designed to facilitate the transition of the LVN Career Mobility student into the third semester of the ADN program. This course focuses on skills needed for successful transition from the LVN role to the role of RN student, i.e., role differentiation, critical thinking/nursing process, and nursing program philosophy and objectives. This course presents the major theoretical concepts that are the foundation for the Registered Nursing curriculum. This course encompasses both classroom activities and opportunities to apply theoretical knowledge in the clinical setting. Three hours lecture, three and one-half hours lab (8 week course).*

NURSE 200

6 Units

### Certified Nursing Assistant/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).*

NURSE 219

2 Units

### Cardiac Rhythms

*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 (8 week course).*

## NURSE 223

4 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.*

## NURSE 230

4 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. Course content is based on CORE CURRICULUM, published by the Emergency Nurses' Association. 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.*

### Special Topics

These courses, numbered 98, 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.

## Registered Nursing

### NURSE 50A

3 Units

#### Fundamentals of Nursing

*Prerequisites: ENGL 1, BIOSC 5, BIOSC 6, BIOSC 14 with grades of "C" or better; current CPR; current physical exam and immunizations; authorization to enter RN program. Concurrent enrollment in NURSE 58. Course Advisories: SCC minimum English and math standards.* Introduces 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 client's position on the wellness-illness continuum. The nursing process will be introduced and utilized at the beginning level. The basis of the nurse-client relationship will be explored. Clinical assignments and self-study modules will be offered concurrently with theory. *Three hours lecture, nine hours lab (8 week course).*

## NURSE 50B

3.5 Units

### Basic Human Needs

*Prerequisites: NURSE 50A with a grade of "C" or better; Concurrent enrollment in NURSE 58. Course Advisories: SCC minimum English and math standards.* 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 surgical client. Clinical assignments and self-study modules will be offered concurrently with theory. *Five hours lecture, seven and one-half hours lab (8 week course).*

## NURSE 52

3 Units

### Pharmacology for Health Care Professionals I

*Prerequisite: BIOSC 5 with a grade of "C" or better. Course Advisories: SCC minimum English and math standards.* Introductory principles of pharmacology with emphasis on the therapeutic use of drugs. Topics of study include sources of drugs, drug nomenclature, drug actions in the body, variables that affect drug actions, drug interactions, adverse effects of drugs, and substance abuse. Special attention is given to anti-infective drugs, cardiac drugs, diuretic drugs, and drugs of the autonomic nervous system. *Three hours lecture.*

## NURSE 54

5 Units

### Maternal-Child Nursing

*Prerequisites: NURSE 50A & 50B, NURSE 52, NUTRI 10, and HU DV 70 with grades of "C" or better; concurrent enrollment in NURSE 58.* 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).*

# Nursing

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## NURSE 55

5 Units

### Nursing of Adults I

*Prerequisites:* Completion of NURSE 50A & 50B, NURSE 52, NUTRI 10, and HU DV 70 with grades of "C" or better; concurrent enrollment in NURSE 58. 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).*

## NURSE 58

.5 -1.5 Units

### Mediated Skills Development

*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.*

## NURSE 60

5 Units

### Nursing of Adults II/Medical-Surgical Nursing

*Prerequisites:* NURSE 54, NURSE 55 and either PSYCH 1 or SOCSC 22 with grades of "C" or better; concurrent enrollment in NURSE 58. 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 client experiencing health alterations in the endocrine, neurological and immune 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. 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).*

## NURSE 61

5 Units

### Psychiatric and Mental Health Nursing

*Prerequisites:* NURSE 54 & NURSE 55 and either PSYCH 1 or SOCSC 22 with grades of "C" or better. *Course Advisories:* SCC minimum English and math standards. Theory and practice related to mental health and illness is studied. This includes the principles and practices of mental health nursing using the prevailing psychobiological theories of mental health and illness, interpersonal communication, group process, growth and development and sociocultural theories. The nursing process is emphasized as the student nurse maintains and promotes mental health and seeks to prevent mental illness. Clinical experience is provided concurrently with theory in acute psychiatric hospitals, long-term care facilities and community agencies. Opportunity is provided for working with children, adolescents and adults individually, as well as in groups. *Five hours lecture, fifteen hours lab (8 week course).*

## NURSE 63

4.5 Units

### Nursing of Adults III/Advanced Medical- Surgical Nursing and Community Health Nursing

*Prerequisites:* NURSE 60 and 61 with grades of "C" or better; concurrent enrollment in NURSE 58. *Course Advisories:* 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 multiple body systems. This course provides the student with the opportunity to implement care in the medical surgical, critical care and community settings, and to refine their clinical skills. The focus is to provide care to multiple clients who have complex multi-system illnesses and to clients in the community. This course facilitates the student's entry into the profession of nursing. Legal and ethical responsibilities related to nursing practice are considered. Skill modules and clinical experience is offered concurrently with theory. *Three hours lecture, sixteen hours lab (10 week course).*

## NURSE 64

1.5 Units

### Issues and Trends in Nursing

*Prerequisites:* NURSE 60 and 61 with grades of "C" or better. *Course Advisories:* SCC minimum English and math standards. Assists the graduates' entry into the profession of nursing. Topics include the trends in scope of practice and roles of the nurse 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), identification of socio-political factors influencing professional nursing, and an introduction to nursing research. Legal and ethical responsibilities related to nursing practice are further considered. This is a non-clinical course. *Three hours lecture (10 week course).*

**NURSE 65****4 Units****Role Transition, Management Theory and Practice**

*Prerequisites: NURSE 63 & NURSE 64 with grades of "C" or better. Course Advisories: SCC minimum English and math standards.* Management and leadership concepts applicable to a variety of health care settings are taught and practiced. Emphasis is placed on working with groups. This course builds upon NURSE 63 and NURSE 64 facilitating the graduates' entry into the nursing profession. Topics which include the transition from student to registered nurse, decision making and values clarification, management, leadership, and organization are presented in the theoretical setting while students have the opportunity to practice their newly learned skills in the clinical agency. The student will work with a nurse preceptor in learning to assume the R.N. role while directing and evaluating the nursing care that other health care givers provide. *Three hours lecture, twenty-four hours laboratory (6 week course).*

**NURSE 100****2 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).*

**NURSE 101****3 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.*

**NURSE 102****1-4 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.*

# History

Humanities Division

## 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 Arts 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.

## Required Courses

	Units
HIST 2—World History to 1750	
OR	
HIST 4—History of Western Civ. to 1500	3
HIST 3—Modern World History	
OR	
HIST 5—History of Western Civ. Since 1500	3
HIST 17 & 18—History of the United States (3 & 3 units)	6
Electives selected from the following categories	6
	18

Students may choose to concentrate their program by selecting elective courses from one category or, for a more diverse program, elective courses may be selected from different categories.

	Units
<b>I. United States</b>	
HIST 10—California History	3
HIST 25—Intro./Native American Studies	3
HIST 28—African-American History	3
HIST 31—Mexican American/Chicano History	3
HIST 37—Women in American History	3
HIST 49—History Honors	1-3
<b>II. World History</b>	
HIST 2—World History to 1750	3
HIST 3—Modern World History	3
HIST 4—Hist./Western Civ. to 1500	3
HIST 5—Hist./Western Civ. Since 1500	3
HIST 30—History of Mexico	3
HIST 32—History of the Philippines	3
HIST 49—History Honors	1-3
<b>III. Ethnicity and Gender Studies</b>	
HIST 25—Intro./Native American Studies	3
HIST 28—African-American History	3
HIST 29—African-American History	3
HIST 31—Mexican American/Chicano History	3
HIST 32—History of the Philippines	3
HIST 37—Women in American History	3
HIST 49—History Honors	1-3

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<b>HIST 2</b>	<b>3 Units</b>	<b>HIST 4H</b>	<b>3 Units</b>
<b>World History to 1750</b> <i>Course Advisories: Eligibility for ENGL 1; SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>		<b>Honors History of Western Civilization to 1500</b> <i>Prerequisites: Eligibility for Honors Program and ENGL 1 with a grade of "B" or better.</i> An honors course in the history of western civilization from its beginning through the Renaissance. Emphasis will be on analyzing the major social, political, economic and cultural forces that have shaped European societies. <i>Three hours lecture.</i>	
<b>HIST 2H</b>	<b>3 Units</b>	<b>HIST 5</b>	<b>3 Units</b>
<b>Honors World History to 1750</b> <i>Prerequisites: Eligibility for Honors Program and ENGL 1 with a grade of "B" or better.</i> An honors course in the 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 that linked these cultures into an integrated world system during the early modern period. <i>Three hours lecture.</i>		<b>History of Western Civilization Since 1500</b> <i>Course Advisory: Eligibility for ENGL 1.</i> 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. (CAN HIST 4) (HIST 4 & 5 = CAN HIST SEQ A). <i>Three hours lecture.</i>	
<b>HIST 3</b>	<b>3 Units</b>	<b>HIST 5H</b>	<b>3 Units</b>
<b>Modern World History</b> <i>Course Advisories: Eligibility for ENGL 1; SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>		<b>Honors History of Western Civilization Since 1500</b> <i>Prerequisites: Eligibility for Honors Program and ENGL 1 with a grade of "B" or better.</i> An honors course in 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. <i>Three hours lecture.</i>	
<b>HIST 3H</b>	<b>3 Units</b>	<b>HIST 10</b>	<b>3 Units</b>
<b>Honors Modern World History</b> <i>Prerequisites: Eligibility for Honors Program and ENGL 1 with a grade of "B" or better.</i> An honors course in the 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. <i>Three hours lecture.</i>		<b>California History</b> <i>Course Advisory: Eligibility for ENGL 1.</i> Survey of the history of California from the pre-colonial, Native American period to the modern state. Particular emphasis will be placed on the interplay of economic, political, social, and cultural forces that contributed to the development of this diverse state. <i>Three hours lecture.</i>	
<b>HIST 4</b>	<b>3 Units</b>	<b>HIST 17</b>	<b>3 Units</b>
<b>History of Western Civilization to 1500</b> <i>Course Advisory: Eligibility for ENGL 1.</i> 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. (CAN HIST 2) (HIST 4 & 5 = CAN HIST SEQ A). <i>Three hours lecture.</i>		<b>History of the United States to 1865</b> <i>Course Advisory: Eligibility for ENGL 1.</i> 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. (CAN HIST 8) (HIST 17 & 18 = CAN HIST SEQ B). <i>Three hours lecture.</i>	

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# History

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- HIST 17H** **3 Units**  
**Honors History of the United States to 1865**  
*Prerequisites: Eligibility for Honors Program and ENGL 1 with a grade of "B" or better.* An honors course in the history of the United States 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 18** **3 Units**  
**History of the United States from 1865**  
*Course Advisory: Eligibility for ENGL 1.* 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. (CAN HIST 10) (HIST 17 & 18 = CAN HIST SEQ B). *Three hours lecture.*
- HIST 25** **3 Units**  
**Introduction To Native American Studies**  
*Course Advisories: Eligibility for ENGL 1; SCC minimum math standard.* Introduction to Native American Studies with emphasis upon basic concepts related to Native American historical, cultural and political development. *Three hours lecture.*
- HIST 28** **3 Units**  
**African American History to 1877**  
*Course Advisory: Eligibility for ENGL 1.* 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 29** **3 Units**  
**African American History Since 1865**  
*Course Advisory: Eligibility for ENGL 1.* 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 30** **3 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 31** **3 Units**  
**Mexican American/Chicano History**  
*Course Advisories: Eligibility for ENGL 1; 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 32** **3 Units**  
**History of the Philippines**  
*Course Advisory: Eligibility for ENGL 1.* 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 37** **3 Units**  
**Women in American History**  
*Course Advisory: Eligibility for ENGL 1.* 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.*
- HIST 49** **1-3 Units**  
**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.*
- Special Topics**  
These courses, numbered 48 or 98, 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.

# Home Economics

Fine & Applied Arts/Behavioral Sciences Division

## Program Description

This is an interdisciplinary program designed for students planning to transfer to a four-year college. Some course descriptions may be found below while others 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 18 -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.

## Required Courses

	Units	Recommended Electives:
FASHD 31—Textiles	3	FASHD 31, 60, 66, 104, 152
FASHD 62—Clothing Construction		HM EC 99
OR		HU DV 39, 50, 53, 58, 75
FASHD 64—Adv. Constr./Tailoring	3	INTDS 51, 55
HU DV 40—Family Relationships	3	NUTRI 12, 101
HU DV 70—Lifespan Human Dev.	3	OCCED 90, 91
INTDS 50—Interior Design	3	
NUTRI 10—Nutrition	3	
	18	

## Home Economics

HM EC 99

1-3 Units

### Home Economics 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 course. The specific fields of study include Fashion Design, Fashion Merchandising, Nutrition, Human Development, and Interior Design. Repeatable to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement with instructor and division Dean.*

HM EC 501

Non-Credit

### Home Decorating Skills for Seniors

A community outreach course designed primarily for senior citizens. Provides creative ideas for designing and making custom home furnishings and accessories, including recycling and other low-cost decorating alternatives. Includes individual projects suited to students' needs, interests and capabilities. Repeatable 3 times. *One hour lecture, two hours lab (9 week course).*

### Special Topics

These courses, numbered 98, 148, 248, or 348 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

HU DV 38

3 Units

### Child Development

*Course Advisory: Eligibility for ENGL 1.* 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 psychosocial environment. Observations are included. *Three hours lecture.*

HU DV 39

3 Units

### School Years and Adolescent Development

*Course Advisories: SCC minimum English standard; PSYCH 1 or HU DV 38.* 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.*

HU DV 40

3 Units

### Family Relationships

*Course Advisory: SCC minimum English standard.* A study of sociological and psychological factors influencing marriage and alternative life-styles in contemporary society, including factors which affect interpersonal relationships within the family. *Three hours lecture.*

# Home Economics

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HU DV 50 3 Units

## Child, Family, Community

*Course Advisory: Eligibility for ENGL 1.* A study of the relationship between the child, his/her family and his/her community. Includes an analysis of the major theories of personality and social development. Special emphasis is given to the resources of the local community that are available to children and families. *Three hours lecture.*

HU DV 52 2 Units

## Issues In Aging

*Course Advisory: Eligibility for ENGL 1.* An interdisciplinary course in care of the elderly, designed for family caregivers and for professional aides employed in homes or institutions which service the elderly whether they are "young old" or "frail elderly." *Two hours lecture.*

HU DV 53 3 Units

## Child Development In a Multi-Ethnic Society

*Course Advisories: SCC minimum English and math standards.* Helps 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. The course is designed to help students understand the theoretical and practical applications in dealing with issues of diversity. *Three hours lecture.*

HU DV 58 3 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.*

HU DV 70 3 Units

## Lifespan Human Development

*Course Advisory: Eligibility for ENGL 1. Note: Not open for credit to students who have successfully completed HU DV 38/39.* 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.*

HU DV 75 .5 -3 Units

## Children With Special Needs

*Prerequisite: HU DV 38. Course Advisory: SCC minimum English standard.* 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. Repeatable to a maximum of 3 units, including initial enrollment. *One-half to three hours lecture.*

## Nutrition

NUTRI 10 3 Units

### Nutrition

*Course Advisory: SCC minimum English and 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. (CAN FCS 2). *Three hours lecture.*

NUTRI 12 .5, 1, 1.5 or 2 Units

### Evaluating Current Topics in Nutrition

*Course Advisories: SCC minimum English and 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. *Eight hours lecture per 1/2 unit.*

NUTRI 51 1 Unit

### Nutrition Basics for Children

*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.*

NUTRI 52 1 Unit

### Child Nutrition for Early Childhood Education

*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.*

NUTRI 101 2 Units

### Food Service Sanitation

*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).*

## 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 in Arts 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 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.

## Required Courses

	Units	Recommended Electives
HS 51—Intro. to Human Services	3	COUN 55, 64, 65
COUN 62—Helping Skills: Creating Alliances & Facilitating Change	3	CRIMJ 1, 11, 58
COUN 63—Field Work	6	ECE 62
HS 52—Intro. to Group Processes	3	HS 98
HS 53—Special Populations	3	HU DV 38, 39, 58, 70, 75
HS 55—Case Management	3	PSYCH 1, 2, 5, 10, 20, 34, 40, 65
	<u>21</u>	OCCED 90
		SOCSC 22, 23, 25, 26, 27
		SOCIO 1, 2, 40

### HS 51

3 Units

#### Introduction to Human Services

*Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard.* An introduction to human services which involves a critical exploration of the history, theoretical development, defining problems and causes within the field of human service, as well as the characteristics and career of a human services worker. The course studies a variety of local agencies, looking at the diverse population they serve, the politics and economics of the system and an evaluation of the legal and social issues with such a delivery system. *Three hours lecture.*

### HS 52

3 Units

#### Introduction to Group Processes

*Course Advisories: COUN 62; eligibility for ENGL 1; 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 53

3 Units

#### Serving Special Populations

*Course Advisories: Eligibility for ENGL 1 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 55

3 Units

#### Introduction to Case Management

*Prerequisite: COUN 62. Course Advisories: Eligibility for ENGL 1 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.*

# Human Services

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**HS 60**

**3 Units**

**Empowerment Skills for Family Workers**

*Course Advisories: SCC minimum English and math standards.* This is the first of a two part family development course to introduce front line human service workers to skills, theory and competencies needed to help families identify and reach their goals for self-reliance. Students will learn how to build on the strengths of families and communities and recognize important changes needed in systems with which families and workers interact. *Three hours lecture.*

**HS 61**

**3 Units**

**Family Support Skills for Family Workers**

*Prerequisite: HS 60. Course Advisories: SCC minimum English and math standards.* This is the second of a two-part family development course for front line Human Service workers and others interested in working in mental health. Course work will cover strength-based assessment, resource development, service coordination, home visitation, team building, goal setting and family conference and group facilitation. *Three hours lecture.*

**Special Topics**

These courses, numbered 98, 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.

## 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 listed below. The Associate in Science Degree can be obtained by completing a total of 60 units, including major, the general education requirements, and electives.

### Required Courses

	Units	Recommended Electives:
CIS 1—Intro. to Computers	3	ACCT 1
INDMG 172—Industrial Safety	3	FIRE 50, 112
INDMG 182—Organization & Admin. of Safety Programs	3	MGMT 191
INDMG 183—Intro. to Industrial Hygiene	3	OCCED 90, 91
MGMT 50—Principles of Mgmt.	3	
MGMT 191—Human Relations	3	
Elective selected from list of Recommended Electives	3	
	21	

## 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.

### Required Courses

	Units	Recommended Electives:
ACR 100 or 101-Air Conditioning	3	
DRAFT 79-Blueprint Reading	2	DRAFT 50, 61, 75
IT 110-Welding	3	ECTRN 102
IT 140-Industrial Materials	3	FIRE 112
IT 150-Industrial Processes	3	
IT 151-Vocational Math	3	
IT 160-Electrical Fundamentals	3	
IT 170-Hydraulics & Pneumatics	3	
MT 160-Intro. to Manufacturing Technology	3	
MT 161-Advanced Manufacturing Technology	3	
	29	

# Industrial Education

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## Job-Direct Certificate Requirements

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

### Manufacturing Technology

	Units
BUS 100—Work Readiness	1.5
MT 160—Intro. to Manufacturing Technology	3
MT 161—Advanced Manufacturing Technology	3
OCCED 90—Occupational Work Experience	<u>2</u>
	9.5

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## Air Conditioning & Refrigeration

ACR 100 3 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 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 Management

INDMG 172 3 Units

### Industrial Safety

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

INDMG 182 3 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.*

INDMG 183 3 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.*

INDMG 186 3 Units

### Elements of Accident Investigation

*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.*

## Industrial Technology

*Industrial Technology education, a part of general education, seeks to develop an interest and an understanding of the tools, materials, and products of industry. All Industrial Technology courses are general and exploratory in nature and are open to the entire college community. Those students seeking occupational trade training should refer to additional listings in “Automotive Body & Repair,” or “Automotive Technology,” “Drafting,” “Electronics,” “Maintenance Technician,” and “Welding.”*

IT 110 3 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 Units

### Modern Welding

*Prerequisite: IT 110.* Designed to acquaint the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques. *Two hours lecture, three hours lab.*

IT 140 3 Units

### Industrial Materials

*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.*

# Industrial Education

IT 150 3 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 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 Units

## Electrical Fundamentals

*Course Advisory: SCC minimum English standard.* Presents the principles of electric circuits, Ohm's law, resistors, motors, generators, transformers, and home lighting circuits. Student will perform laboratory experiments and take written tests. *Two hours lecture, three hours lab.*

IT 170 3 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 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 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.*

## Special Topics

These courses, numbered 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.

## Maintenance Technician

MT 160 3 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 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 Units

### Robotic Manufacturing Systems

*Prerequisite: MT 160 or ECTRN 61. 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.*

## SPECIAL TOPICS

These courses, numbered 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.

# Interior Design

Fine & Applied Arts/Behavioral Sciences Division

## 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 28-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.

## Required Courses

	Units	
INTDS 50—Interior Design	3	<b>Recommended Electives:</b> ART 1, 2, 6, 8, 11, 15 MKT 171 DRAFT 60, 150 FASHM 54, 55 OCCED 91
INTDS 51—Materials & Techniques	3	
INTDS 52—Drafting/Perspect. Drawing for Interiors	3	
INTDS 53—History/Interiors and Furniture	3	
INTDS 55—Adv. Interior Design	3	
BUS 181—Business Mathematics	1	
FASHD 31—Textiles	3	
MKT 173—Sales	3	
OR		
MKT 174—Retail Merchandising	3	
OCCED 90—Occupation Work Experience	3	
ART 7 — Color & Design	3	
	28	

### INTDS 50 3 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.*

### INTDS 51 3 Units Materials and Techniques

*Course Advisory: Eligibility for ENGL 1.* 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, and innovative uses of existing resources. Repeatable 1 time. *Two hours lecture, two hours lab.*

### INTDS 52 3 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, four hours lab.*

### INTDS 53 3 Units History of Interiors and Furniture

*Course Advisory: SCC minimum English standard.* Study of the dominant characteristics of historical interior styles, furniture designs, and architectural styles from ancient to modern times. *Three hours lecture.*

### INTDS 55 3 Units Advanced Interior Design

*Prerequisites: INTDS 50, 51, 52, 53. Course Advisory: 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.*

### INTDS 61 3 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.*

# International Relations

Humanities Division

## 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 31-unit major, general education requirements, and electives.

## Required Courses

	Units	Select three units (cont.):	Units
IR 1—Global Interdependence	3		
ECON 1—Principles of Economics	3	ENGL 16—Masterpieces of Western World Literature (3 units)	
ECON 2—Principles of Economics	3	OR	
FOREIGN LANGUAGE (Choose from FRNCH, GERMN, or SPAN numbered 1-34)*	10	ENGL 17—Eastern World Literature (3 units)	
GEOG 4—World Geography	3	FOREIGN LANGUAGE—Any course numbered 1-34 not used above (3-5 units)	
HIST 5—History of Western Civilization since 1500	3	HIST 3—Modern World History (3 units)	
POLSC 3—Intro. to International Politics	3	GEOG 2—Cultural Geography (3 units)	
		PHLOS 31—Introduction to World Religions of the East (3 units)	
		OR	
		PHLOS 32—Introduction to World Religions of the West (3 units)	
		POLSC 2—Introduction to Comparative Government (3 units)	
		SOCSC 28—Introduction to African Studies (3 units)	
		SPEECH 10—Interpersonal Comm. (3 units)	
		Total Required Units:	31

\*A passing score on any foreign language standardized proficiency examination can be substituted for the foreign language requirement.

**Select three (3) units from the following:** 3  
 ANTH 2—Cultural Anthropology (3 units)  
 ART 1—Art History (3 units)  
 BIOSC 12—Environmental Science (3 units)  
 BUS 60—Introduction to International  
 Business (3 units)

### IR 1

**3 Units**

#### Global Interdependence

*Course Advisory: Eligibility for ENGL 1, POLSC 1, ENGL 62.* 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

Humanities Division

## 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.

## Required Courses

	Units
JOURN 1—Newsriting & Reporting	3
JOURN 11—Intro. to Mass Communication	3
JOURN 60—Publications Laboratory	3
Emphasis area courses	9
Program electives	6
	24

**Emphasis areas:** Students must complete 9 units in one emphasis area. (NOTE: Courses with an "\*" have prerequisites or advisories other than eligibility for ENGL 1.)

<b>Print Media</b>	Units	<b>Visual Communications</b>	Units
*ENGL 4—Critical Thinking and Composition: Language in Context	3	ART 52—Lettering and Layout	2-3
*ENGL 6—Creative Writing I	3	Art 54—Illustration I	3
*ENGL 58—Creative Writing: The Literary Magazine	3	ART 56—Graphic Design I	3
JOURN 2—Introduction to Feature and Magazine Writing	3	CIS 84—PageMaker Publishing	3
JOURN 61—Online Publication Lab	3	JOURN 61—Online Publication Lab	3
		*PHOTO 56—Photojournalism & Documentary Photography	3
		*PHOTO 170—Digital Imaging in Photo	3
		*TV 55—Beginning TV Production	3
<b>Online Journalism</b>		<b>Broadcast Media</b>	
*CIS 35—Intro. to JAVA Programming	3	JOURN 2—Newsriting and the Feature Story	3
*CIS 61—Creating Web Pages	1.5	JOURN 61—Online Publication Lab	3
CIS 84—PageMaker Publishing	3	SPEECH 6—Argumentation & Debate	3
JOURN 61—Online Publication Lab	3	SPEECH 50—Forensics/Speech Workshop	1-3
*PHOTO 170—Digital Imaging/Photo	3	*TV 55—Beginning TV Production	3
*TV 55—Beginning TV Production	3	*TV 60—Television & Film Writing	3
		<b>Recommended Electives</b>	
		Any course from a second emphasis area	
		Any foreign language	
		JOURN 60 or 61	
		*MATH 11	
		OCCED 90, 91	

**JOURN 1** **3 Units**

**Newswriting & Reporting**

*Prerequisite: Eligibility for ENGL 1.* Theory and practice of writing for publication in newspapers. Emphasis is on basic skills in writing the new story: effective writing, style, and interviewing. (CAN JOUR 2). *Three hours lecture.*

**JOURN 2** **3 Units**

**Introduction to Feature and Magazine Writing**

*Prerequisite: Eligibility for ENGL 1.* This class teaches the theory and practice of feature writing, including profiles, critical reviews, opinion columns, travel, news features and trend stories. Students learn research and reporting methods, grammar and style rules, libel and privacy laws, and tools for marketing their stories. *Three hours lecture.*

**JOURN 11** **3 Units**

**Introduction To Mass Communication**

*Prerequisite: Eligibility for ENGL 1.* 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. (CAN JOUR 4). *Three hours lecture.*

**JOURN 60** **1-3 Units**

**Publications Laboratory**

*Prerequisite: Eligibility for ENGL 1.* Theory, practice, and training in planning, writing, editing, art work, photography, and management of staff members of the college newspaper. One-unit option requires three hours a week; two-unit option requires six hours a week; and three-unit option requires nine hours a week. Repeatable to a maximum of 12 units, including initial enrollment. NOTE: Combined units for JOURN 60 and 61 may not exceed 12. *Three to six hours lab, three hours by arrangement weekly.*

**JOURN 61** **3 Units**

**Online Publications Laboratory**

*Prerequisite: Eligibility for ENGL 1. Course advisory: JOURN 60 or CIS 61.* Theory, practice, and training in planning, designing and maintaining the college online newspaper, including designing the web site, adapting print content for the web, and producing unique online content. Repeatable to a maximum of 12 units, including initial enrollment. NOTE: Combined units for JOURN 60 and 61 may not exceed 12. *Three to six hours lab, three hours by arrangement weekly.*

**Special Topics**

These courses, numbered 98 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.

## Program Description

An interdisciplinary program which offers breadth and diversity rather than specialization. The curriculum is not housed within any one of the academic divisions, but consists of the sum of those courses approved for general education credit for the Associate Degree. This program offers a basic core education in the traditional academic disciplines, and the major is ideal for those students who are undecided in their major.

## Associate in Arts Degree

An Associate in Arts Degree can be obtained upon completion of 60 units, including the 18-unit major, general education requirements, and electives. The major consists of courses to be selected from the four areas below. One course from each area is required with the remainder of the major to be selected from the remaining courses in any of the areas. The required course in the Natural Science area must include a laboratory.

## Required Courses

### Natural Science

The required course must include a laboratory (Group A)

#### A. Lecture and Laboratory

BIOSC 1, 2, 5, 6, 10, 12 & 12L, 14, 15, 19  
CHEM 1, 2, 3, 4, 10, 11  
GEOL 1 & 2, 3 & 4  
PHYS 12  
PHYS 2, 4, 6, 7, 8, 10

#### B. Lecture only

ANTH 1  
ASTR 10  
BIOSC 12, 16, 18  
ENGR 30  
GEOG 1  
GEOL 5  
METER 10

### Mathematics

MATH 2, 4, 11, 12, 15, 20, 21, 22, 23, 28,  
29, 30, 31, 40, 51

### Social Science

AMST 1, 2  
ANTH 2, 7  
COUN 55, 83  
CRIMJ 1  
ECON 1, 2

### Social Science (continued)

GEOG 2, 4  
HIST 10, 17, 17H, 18, 25, 28, 29,  
30, 31, 32, 37  
HU DV 38, 39, 40, 50, 58, 70  
JOURN 11  
POLSC 1, 1H, 2, 3, 5, 6, 16, 60  
PSYCH 1, 1H, 2, 4, 5, 10, 20, 24, 30, 34  
SOCSC 22, 23, 25, 26, 27, 28  
SOCIO 1, 2, 23, 30, 40  
TV 50

### Humanities

ART 1, 2, 10, 11, 12  
CINMA 10, 11  
ENGL 2, 2H, 4, 4H, 5, 6, 7, 12, 13, 14, 16, 18, 21, 23,  
24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 44,  
48, 58  
FRLNG 1-34  
HIST 2, 2H, 3, 3H, 4, 4H, 5, 5H  
HUMN 1, 2, 3  
MUSIC 5, 7, 8, 13  
PHLOS 1, 3, 4, 5, 31, 32  
PHOTO 35  
SPAN 25  
SPEECH 1, 1H, 2, 6, 15  
THEA 1, 2, 5, 6, 10, 11, 13  
TV 50, 60, 61

## *Liberal Arts Honors*

### **Program Description**

An interdisciplinary program which offers high achieving, highly motivated students an enriched educational experience designed to prepare them for a successful transition from community college to university.

**Eligibility for Honors Program:** Students must fulfill the requirements of one of the following categories:

**Category 1:** Entering high school graduates who have: scored 4 or better on the advanced placement exam in any academic area (Government, History, Language and Composition, Literature and Composition, Math, or Science).

**Category 2:** Solano College students who have: Achieved a 3.5 GPA after completing twelve units in Solano College classes. (NOTE: These 12 units must be completed in any Solano College course numbered 1 through 49, excluding PE activity classes.)

Once admitted to the Honors Program, students must maintain a 3.5 overall GPA, with a minimum grade of "B" in each honors course in order to remain eligible for the Honors program.

### **Associate in Arts Degree**

An Associate in Arts Degree in Liberal Arts Honors can be obtained by completing a minimum of 18 units in Honors courses, general education requirements, and electives. The 18 units in Honors courses must include a minimum of 3 units in three of the four areas of the Liberal Arts Program shown below.

### **Required Courses**

Each course must be completed with a minimum grade of "B."

#### **Natural Science**

Completion of any two of the following courses:

BIOSC 1, 2  
CHEM 1, 2, 3, 4  
PHYS 2, 4, 6, 7

OR

Completion of one of the following series:

BIOSC 1 or 2 or 5 or 14 or 15, concurrently with or followed by  
BIOSC 49H-Honors  
CHEM 1 or 2 or 10, concurrently with or followed by CHEM 49H-  
Honors  
GEOL 1 and 2, concurrently with or followed by GEOL 49H-Hon-  
ors

#### **Mathematics**

MATH 20 & 21 or MATH 30 & 31

#### **Social Science** (at least one course)

HIST 17H,  
POLSC 1H  
PSYCH 1H

#### **Humanities** (at least one course)

ENGL 2H, 4H  
HIST 2H, 3H, 4H, 5H  
SPEECH 1H

*Participation in at least one Learning Communities course is strongly recommended for students in the Honors program.*

## Liberal Arts

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### American Studies

**AMST 1** 3 Units

**An Interdisciplinary Study of American Culture**  
*Course Advisories: ENGL 1 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 2** 3 Units

**An Interdisciplinary Study of American Culture**  
*Course Advisories: ENGL 1 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 50** 3 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 1** 3 Units

**What It Means To Be Human**  
*Prerequisite: ENGL 1.* Explores what it means to be human by examining human life in several ways such as humans as social beings, thinkers, myth makers, aggressors and peace makers, scientists, and creators. Inquiry into each category will involve critical thinking, artistic sensitivity, and historical perspective. *Three hours lecture.*

**HUMN 2** 3 Units

**Humans As Creators: The Media of Creativity**  
*Course Advisory: Eligibility for ENGL 1.* Exploration of the varieties of ways in which humans demonstrate their creative ability ranging from a study of the creative process itself to an examination of creativity in the arts, in the sciences, and in human organization. *Three hours lecture.*

**HUMN 3** 3 Units

**Journey Into a Multi-Cultural 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 1** 3 Units

**Principles of Library Research**  
*Course Advisories: Eligibility for ENGL 1; SCC minimum math standard.* Broad overview of research methodology leading to successful information retrieval. The student will develop skills through analysis and comparison of print sources, electronic indexes, and web-based resources. *Three hours lecture.*

**LR 10** 1 Unit

**Basics of Information Competency**  
*Prerequisite: None. NOTE: Not open for credit to students who have completed LR 1. Course Advisories: Eligibility for ENGL 1; SCC minimum math standard.* A course teaching the skills needed to find, evaluate, use, and communicate information from print resources, online databases, and the Internet. *Two hours lecture (8 week course).*

**LR 51** 1 Unit

**World Wide Web Searching**  
*Course Advisories: SCC minimum English and math standards; basic keyboarding and experience with Windows or Macintosh operating systems.* Introduction to techniques of effective web-based research. Includes use of navigational tools, formulation of search strategies, identification of critical web sites, and evaluation of information retrieved. *Two hours lecture (8 week course).*

# Life Management

Fine & Applied Arts/Behavioral Sciences Division

## 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 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.

## Required Courses

	Units	
CIS 50—MicroComputer Appl.	3	<b>Recommended Electives:</b> ACCT 180 BUS 182 COUN 50, 83 FASHD 31, 62 FASHM 53 HU DV 38 or 39, *40, 50, 52, 53 INTDS 51, 53, 55 MGMT 191 NUTRI 101 OCCED 90, 91
CIS 63—Intro to WordPerfect	3	
FASHD 60—Clothing Selection	3	
HU DV 40—Family Relationships		
OR		
HU DV 70—Lifespan Human Dev.	3	
HU DV 58—Life Management	3	
INTDS 50—Interior Design	3	
MGMT 194—Personal Finance	3	
NUTRI 10—Nutrition	3	
	24	

\*If not used in the major.

# Management

Business & Computer Science Division

## 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.

### Required Courses

(Recommended Sequence)	Units	Supporting Courses (for the A.S.)	Units
BUS 5—Introduction to Business	3	ECON 1—Prin. of Economics- Macro	
MGMT. 50—Prin. of Management	3	OR	
MGMT 55—Management/Ldership Skills	3	ECON 2—Prin. of Economics- Micro	3
MGMT 191—Human Relations		ACCT 1—Prin.of Acctng-Financial	
OR		OR	
MGMT 193—Human Resources Mgmt.	3	ACCT 2—Prin.of Acctng-Managerial	4
BUS 92—Bus. Communication	3	BUS 18—Legal Environment of Bus.	3
CIS 50—Microcomputer Applications	3		10*
BUS 181—Business Mathematics	3	*Required for the A.S. degree.	
	21		
		<b>Recommended Electives</b>	
		OCCED 90	

## 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.

# Management

## Required Courses

(Recommended Sequence)

	Units	Recommended Electives
MGMT 184—Small Business Mgmt. and Planning	3	ACCT 1, 2, 180
MGMT 186—Small Business Marketing	3	BUS 60
MGMT 188—Computers/Small Business	3	ECON 1, 2
BUS 5—Introduction to Business	3	MGMT 55, 191
BUS 18—Legal Environment of Business	3	MKT 173, 174
BUS 181—Business Math	3	OCCEd 90, 91 (1-4 units)
BUS 182—Small Business Math	1	OT 54, 55
BUS 92—Business Communication	3	SPAN 1, 2
Electives selected from list of Recommended Electives	6	
	28	

## 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.

## Required Courses

(Recommended Sequence)

	Units	Recommended Electives
BUS 92—Business Communication	3	BUS 182
BUS 181—Business Mathematics	3	OCCEd 90, 91
CIS 50—Microcomputer Applications	3	
MGMT 50—Principles of Management	3	
ACCT180—Introduction to Accounting (3 units)		
OR		
ACCT 1—Prin. of Acctng—Financial (4 units)	3-4	
MKT 171—Introduction to Marketing	3	
MKT 174 Retail Merchandising	3	
MGMT 191—Human Relations	3	
MGMT 55—Management/Leadership Skills	3	
MGMT 193—Human Resource Management	3	
	30-31	

NOTE: This program is approved by the Western Association of Food Chains for awarding of the industry WAFC Certificate.

# Management

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## MGMT 50

3 Units

### Principles of Management

*Course Advisories: Eligibility for ENGL 1; 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 55

3 Units

### Management/Leadership Skills

*Course Advisory: Eligibility to enroll in ENGL 1.* 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 Units

### Small Business Management and Planning

*Course Advisory: Eligibility to enroll in ENGL 1.* 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 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 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 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 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 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.*

### **SPECIAL TOPICS**

These courses, numbered 98, 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.

# Marketing

Business & Computer Science Division

## 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.

### Required Courses

	Units	
BUS 5–Intro. to Business	3	<b>Recommended Electives</b> ACCT 1, 180 BUS 60, 92 CIS 60 ECON 1 MGMT 50 *, 191* MKT 170 OCCED 90  *If not taken as part of the major.
BUS 18–Legal Environment of Bus.	3	
BUS 181– Business Math	3	
CIS 50–Microcomputer Applications		
OR		
CIS 1–Intro to Computer Science	3	
ECON 2–Principles of Economics	3	
MGMT 50–Prin. of Management		
OR		
MGMT 191 Human Relations	3	
MKT 171 – Introduction to Marketing	3	
MKT 172–Marketing Mgmt & Planning	3	
MKT 173–Principles of Selling	3	
MKT 174–Retail Merchandising	3	
	30	

**MKT 170** **3 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 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 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 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 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.*

## 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 with a grade of "C" (2.0) or better in each course, general education requirements, and electives.

## Required Courses

	Units
MATH 20—Analytic Geometry and Calculus	4
MATH 21—Analytic Geometry and Calculus	4
MATH 22—Analytic Geometry and Calculus	4
MATH 23—Differential Equations (3 units)	
OR	
MATH 11—Elementary Statistics (4 units)	
OR	
MATH 12—Mathematical Ideas (3 units)	
OR	
MATH 15—Finite Mathematics (3 units)	3-4
MATH 40—Intro. to Linear Algebra	3
	18-19
<b>Recommended Elective:</b>	
MATH 60	

*NOTE: Specific graphing calculators are required in some math courses.*

### MATH 2 3 Units

**Algebra for Calculus (College Algebra)** (F/S-Day & Night)

*Prerequisites: A grade of "C" or better in MATH 104 . 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. (CAN MATH 10) *Three hours lecture, one hour lab.*

### MATH 4 5 Units

**Pre-Calculus Mathematics** (F/S-Day)

*Prerequisites: A grade of "C" or better in MATH 103 and 104. NOTE: Not open to students who have completed MATH 51 or MATH 2 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. (CAN MATH 16). *Five hours lecture, one hour lab.*

### MATH 11 4 Units

**Elementary Statistics** (F/S-Day & Night)

*Prerequisites: A grade of "C" or better in MATH 104. Course Advisory: Eligibility for ENGL 1.* An introduction to elementary probability and statistics including the basic rules of probability, probability distributions, descriptive statistics, hypothesis testing, estimation, correlation and regression analysis. (CAN STAT 2). *Four hours lecture, one hour lab.*

# Mathematics

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## MATH 12

3 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. (CAN MATH 2). *Three hours lecture.*

## MATH 15

3 Units

### Finite Mathematics (On demand)

*Prerequisites:* A grade of "C" or better in MATH 104.

*Course Advisory:* SCC minimum English standard.

An introduction of finite mathematical methods including topics from set theory, matrix algebra, combinatorial analysis, and probability with application to statistics, linear programming, Markov chains, and game theory. Includes the application of these methods to business, biology, computer science, and the social sciences. (CAN MATH 12). *Three hours lecture, one hour lab.*

## MATH 20

4 Units

### Analytic Geometry and Calculus I (F-Day & Night; S-Day)

*Prerequisites:* Grades of "C" or better in MATH 2 and 51, or MATH 4. Not open to students who have successfully completed MATH 28 with a grade of "C" or better. *Course*

*Advisory:* SCC minimum English standard. MATH 20, 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. (CAN MATH 18) (MATH 20 & 21 = CAN MATH SEQ B) (MATH 20, 21, & 22 = CAN MATH SEQ C). *Five hours lecture, one hour lab.*

## MATH 21

4 Units

### Analytic Geometry and Calculus II

(F-Day; S-Day & Night)

*Prerequisites:* A grade of "C" or better in MATH 20. *Course*

*Advisory:* SCC minimum English standard. Math 21, 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. (CAN MATH 20) (MATH 20 & 21 = CAN MATH SEQ B) (MATH 20, 21, & 22 = CAN MATH SEQ C). *Five hours lecture, one hour lab.*

## MATH 22

4 Units

### Analytic Geometry and Calculus III (F/S-Day)

*Prerequisites:* A grade of "C" or better in MATH 21. *Course*

*Advisory:* SCC minimum English standard. Math 22, 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. (CAN MATH 22) (MATH 20, 21, & 22 = CAN MATH SEQ C). *Four hours lecture, one hour lab.*

## MATH 23

3 Units

### Differential Equations (F/S-Day)

*Prerequisite:* A grade of "C" or better in MATH 21. *Course*

*Advisory:* SCC minimum English standard. This course covers ordinary differential equations emphasizing linear differential equations and systems with applications to engineering, physics, and chemistry. Included are La Place transforms and power series methods of solution. (CAN MATH 24). *Four hours lecture.*

**MATH 30****3 Units****Analytic Geometry and Calculus (F/S-Day & Night)***Prerequisites: A grade of "C" or better in MATH 104.*

*NOTE: Not open to students who have completed MATH 20 or 28 with a grade of "C" or better. Course Advisory: SCC minimum English standard. MATH 30 and 31 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 30 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. (CAN MATH 30) (MATH 30 & 31 = CAN MATH SEQ D). Three hours lecture, one hour lab.*

**MATH 31****3 Units****Analytic Geometry and Calculus (F/S-Day & Night)***Prerequisites: MATH 30 with a grade of "C" or better.*

*Course Advisory: SCC minimum English standard. A continuation of the calculus of functions of one variable (MATH 30). 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. (CAN MATH 32) (MATH 30 & 31 = CAN MATH SEQ D) Three hours lecture, one hour lab.*

**MATH 40****3 Units****Introduction to Linear Algebra (F/S-Day)***Prerequisites: A grade of "C" or better in MATH 20 or 30.*

*NOTE: A relatively high degree of mathematical maturity is required for this course. Course Advisory: SCC minimum English standard. 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. (CAN MATH 26). Three hours lecture, one hour lab.*

**MATH 51****3 Units****Trigonometry (F/S-Day & Night)***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. (CAN MATH 8). Three hours lecture, one hour lab.

**MATH 52****1 Unit****Calculus Prep Boot Camp (On demand)***Prerequisite: A grade of "C" or better in MATH 2 AND*

*MATH 51, OR MATH 4. Course Advisory: Eligibility for ENGL 1. An introduction to some of the ideas of calculus using a "hands on", intuitive approach. The emphasis is on learning strategies, collaborative learning, and developing math study skills. This is a credit/no credit only course. Two hours activity.*

**MATH 60****.5 Unit****Introduction to the Use of Technology in Mathematics (On demand)**

An introduction to the functions of a scientific graphing calculator or a mathematical computer software package and their uses as tools in mathematical problem solving. The topics covered will be useful in current and subsequent math courses. Students may be required to have a specific model calculator as indicated by the instructor. The course is designed for students who are or will be enrolled in a math course that uses technology to solve problems from the course content outline. This is a credit/no credit only course. One hour lecture per week (8 week course).

**MATH 102****5 Units****Elementary Algebra (F/S-Day & Night)***Prerequisites: MATH 320 with a grade of "C" or better.*

*NOTE: Not open to students who have passed MATH 107. 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. Five hours lecture, one hour lab.

**MATH 103****3 Units****Plane Geometry (F/S-Day & Night)***Prerequisite: A grade of "C" or better in MATH 102*

*or MATH 108. 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.*

# Mathematics

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## MATH 104

5 Units

### Intermediate Algebra (F/S-Day & Night)

*Prerequisites:* A grade of “C” or better in MATH 102 or MATH 108. *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 107

2.5 Units

### Elementary Algebra, Part I (F/S-Day & Night)

*Prerequisites:* MATH 320 with a grade of “C” or better. *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 108 to complete Elementary Algebra. Students who pass MATH 107 are not eligible for MATH 102. *Two and one-half hours lecture, one hour lab.*

## MATH 108

2.5 Units

### Elementary Algebra, Part II (F/S-Day & Night)

*Prerequisites:* A grade of “C” or better in MATH 107. *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. *Two and one-half hours lecture, one hour lab.*

## MATH 112

3 Units

### Algebraic Reasoning

*Prerequisites:* MATH 102 or MATH 108 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 304

1-3 Units

### Arithmetic (Self-Paced) (F/S-Day & Night)

*Prerequisite:* None. *NOTE:* Students who have completed MATH 310 are not eligible to enroll in MATH 304. *May not be taken concurrently with MATH 310.* *Course Advisory:* SCC minimum English standard. An individualized course in basic mathematical computations designed to improve arithmetic skills and prepare the student for a pre-algebra level math course. The first unit is whole numbers and fractions. The second unit is decimals and percents. The third unit is simple geometry, basic statistics, and measurements. This is an open entry/open exit, credit/no credit only course. May be repeated to a maximum of 3 units, including initial enrollment. *Three hours lecture.*

## MATH 310

3 Units

### Arithmetic (Lecture)

*Prerequisite:* None. *NOTE:* Not open for credit to students who have completed 1 unit or more of MATH 304. *May not be taken concurrently with 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

3 Units

### Pre-algebra

*Prerequisite:* Three units of credit in MATH 304, or a grade of “C” or better in MATH 310, or three units of credit in 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, basic geometry, graphing, and application problems. *Three hours lecture, one hour lab.*

## SPECIAL TOPICS

These courses, numbered 48, 98, 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.

## 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.

## Required Courses

### *Music—Instrumental*

	Units
MUSIC 3 & 4-Advanced Theory (4 & 4 units)	8
MUSIC 41A & B-Piano for Music Majors (1.5 & 1.5 units)	3
*MUSIC 10—Concert Band	
OR	
MUSIC 21—Chorus	2
<b>Select one course from the following:</b>	1-1.5
MUSIC 30—Intermediate Piano (1 unit)	
MUSIC 32—Class Lessons in Brass (1.5 units)	
MUSIC 33—Class Lessons in Brass (1 unit)	
MUSIC 34—Class Lessons in Percussion (1.5 units)	
MUSIC 37—Elementary Organ (1.5 units)	
MUSIC 39—Class Lessons in Intermediate Guitar (1.5 units)	
<b>Select 7 units from the following:</b>	7
MUSIC 8—Music Appreciation (3 units)	
MUSIC 10—Concert Band (2 units)	
MUSIC 13—Multicultural Music in America (3 units)	
MUSIC 14—Jazz Ensemble (2 units)	
MUSIC 16—Symphony Orchestra (.5-1 unit)	
MUSIC 17—Chamber Orchestra (2 units)	
MUSIC 18—Beginning Steel Band (2 units)	
MUSIC 19—Instrumental Ensemble (2 units)	
MUSIC 23—Handbell Ensemble (2 units)	
MUSIC 42A or B—Jazz & Pop Piano (1.5 units ea.)	
MUSIC 46—Instrumental Conducting (1 unit)	
MUSIC 55—Intro. to Jazz Improvisation (3 units)	
MUSIC 56—Jazz Improvisation Ensemble (2 units)	
	<hr/>
	21-21.5

\*Required the first semester of enrollment.

# Music

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## Music—Theory-Composition

	Units
MUSIC 3 & 4-Advanced Theory (4 & 4 units)	8
MUSIC 41A & B-Piano for Music Majors (1.5 & 1.5 units)	3
* MUSIC 10—Concert Band	
OR	
MUSIC 21—Chorus	2
<b>Select one course from the following:</b>	1-1.5
MUSIC 30—Intermediate Piano (1 unit)	
MUSIC 37—Elementary Organ (1.5 units)	
<b>Select 7 units from the following:</b>	7
MUSIC 6—Composition, Arranging, Songwriting (3 units)	
MUSIC 8—Music Appreciation (3 units)	
MUSIC 13—Multicultural Music in America (3 units)	
MUSIC 46—Instrumental Conducting (1 unit)	
MUSIC 52—Sound Recording (2 units)	
MUSIC 53—Adv. Sound Recording (2 units)	
MUSIC 55—Intro. to Jazz Improvisation (3 units)	
MUSIC 56—Jazz Improvisation Ensemble (2 units)	
MUSIC 60—Computer Assisted Music Lab (.5-3 units)	
MUSIC 61—MIDI Computer Music Seq./Scoring (2 units)	—
	21-21.5

\*Required the first semester of enrollment.

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## Music—Vocal

	Units
MUSIC 3 & 4-Advanced Theory (4 & 4 units)	8
MUSIC 41A & B-Piano for Music Majors (1.5 & 1.5 units)	3
* MUSIC 10—Concert Band	
OR	
MUSIC 21—Chorus	2
<b>Select one course from the following (all 1.5 units):</b>	1.5
MUSIC 35A or B—Beginning Voice I or II	
MUSIC 36A or B—Intermediate Voice I or II	
<b>Select 7 units from the following:</b>	7
MUSIC 8—Music Appreciation (3 units)	
MUSIC 13—Multicultural Music in America (3 units)	
MUSIC 20—Choir (2 units)	
MUSIC 22—Musical Theater (1-3 units)	
MUSIC 24—Master Works Chorale (2 units)	
MUSIC 25—Chamber Choir (2 units)	
MUSIC 26—Vocal Jazz Ensemble (2 units)	
MUSIC 47—Choral Conducting (1 unit)	
MUSIC 51—Jazz and Popular Solo Voice (1.5 units)	—
	21.5

\*Required the first semester of enrollment.

## MUSIC 1

4 Units

### Beginning Theory (F-Day)

*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. *Five hours lecture.*

## MUSIC 2

4 Units

### Beginning Theory (S-Day)

*Prerequisite: MUSIC 1 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. *Five hours lecture.*

## MUSIC 3

4 Units

### Advanced Theory (F-Day)

*Prerequisite: MUSIC 2 or passage of acceptance exam. Course Advisories: SCC minimum English and math standards.* 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. *Five hours lecture.*

## MUSIC 4

4 Units

### Advanced Theory (S-Day)

*Prerequisite: MUSIC 3 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. *Five hours lecture.*

## MUSIC 5

3 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.*

## MUSIC 6

3 Units

### Composition, Arranging, Songwriting

*Prerequisite: MUSIC 1 and 2 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.*

## MUSIC 7

3 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.*

# Music

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<b>MUSIC 8</b> <b>Music Appreciation</b> <i>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 Renaissance to today's avante-garde and popular styles. Reports, listening tests, quizzes on assigned readings and listening projects may be required. (CAN MUS 8). Three hours lecture.</i>	<b>3 Units</b>	<b>MUSIC 15</b> <b>Stage Band</b> <i>Course Advisories: SCC minimum English standard; play a jazz instrument. An instrumental ensemble class analyzing and performing stage band music. This class requires public performance. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>
<b>MUSIC 9</b> <b>Wind Ensemble</b> <i>Course Advisories: SCC minimum English standard; play a band instrument. An instrumental ensemble class analyzing and performing wind ensemble music. This class requires public performance. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>	<b>MUSIC 16</b> <b>Symphony Orchestra</b> <i>Course Advisories: SCC minimum English standard; ability to play an instrument. An opportunity for qualified instrumentalists to perform as part of a symphony orchestra in public performance. A wide variety of musical literature is covered. This is an open entry/open exit course. Repeatable 3 times. One and one-half to three hours lab.</i>	<b>.5 -1 Unit</b>
<b>MUSIC 10</b> <b>Concert Band</b> <i>Course Advisories: SCC minimum English standard; play a band instrument. An instrumental ensemble class analyzing and performing concert band music. This class requires public performance. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>	<b>MUSIC 17</b> <b>Chamber Orchestra</b> <i>Course Advisories: SCC minimum English standard; play an orchestral instrument. An instrumental ensemble class analyzing and performing large quantities of chamber orchestra music. This class requires public performance. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>
<b>MUSIC 11</b> <b>Symphonic Band</b> <i>Course Advisories: SCC minimum English standard; play a band instrument. An instrumental ensemble class analyzing and performing symphonic band music. This class requires public performance. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>	<b>MUSIC 18</b> <b>Beginning Steel Drum Band</b> <i>Course Advisories: SCC minimum English and math standards. An ensemble class with emphasis on music from the Caribbean. Regular rehearsal and performances using steel drums. This class also presents a comparison of Caribbean musical performance styles. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>
<b>MUSIC 13</b> <b>Multicultural Music in America</b> <i>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.</i>	<b>3 Units</b>	<b>MUSIC 19</b> <b>Instrumental Ensemble</b> <i>Course Advisory: Ability to read music and play an instrument. The study and performance of representative music literature for strings, woodwinds, brass and small mixed group ensembles. Includes improvisation, reading, ensemble practice and outside performance when possible. Repeatable 3 times. Two hours lecture, one hour lab.</i>	<b>2 Units</b>
<b>MUSIC 14</b> <b>Jazz Ensemble</b> <i>Course Advisories: SCC minimum English standard; play a jazz instrument. An instrumental ensemble class analyzing and performing jazz music. This class requires public performance. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>	<b>MUSIC 20</b> <b>Choir (F/S—Night)</b> <i>Study and performance of a variety of a cappella and accompanied choral literature. Attendance at public performances required. Repeatable 3 times. One hour lecture, two hours lab and one hour weekly by arrangement.</i>	<b>2 Units</b>

<b>MUSIC 21</b>	<b>2 Units</b>	<b>MUSIC 27</b>	<b>1.5 Units</b>
<b>Chorus</b>		<b>Elementary Piano, Part I</b>	
Designed to train students to sight sing, note read, use proper voice production and perform a variety of standard choral literature. Highly recommended for theory students and those interested in choral singing. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>		<i>Course Advisories: SCC minimum English and Math standards.</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>	
<b>MUSIC 22</b>	<b>1-3 Units</b>	<b>MUSIC 28</b>	<b>1.5 Units</b>
<b>Musical Theater (F/S-Night)</b>		<b>Elementary Piano, Part II</b>	
<i>Prerequisite: Audition for actors only, no auditions for crew and other staff.</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. May be repeated to a maximum of 12 units, including initial enrollment. <i>One hours lecture, up to three hours lab, and up to five hours weekly by arrangement.</i>		<i>Prerequisite: Music 27.</i> <i>Course Advisories: SCC minimum English and Math standards.</i> A continuation of Music 27, 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>	
<b>MUSIC 23</b>	<b>2 Units</b>	<b>MUSIC 29</b>	<b>1.5 Units</b>
<b>Handbell Ensemble</b>		<b>Intermediate Piano, Part I</b>	
<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>		<i>Prerequisite: Music 28.</i> <i>Course Advisories: SCC minimum English and Math 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>	
<b>MUSIC 24</b>	<b>2 Units</b>	<b>MUSIC 30</b>	<b>1.5 Units</b>
<b>Master Works Chorale</b>		<b>Intermediate Piano, Part II</b>	
<i>Prerequisite: Audition of music and vocal skills.</i> Study of choral music techniques and performance of 18th and 20th Century masterworks for the large ensemble. Both a cappella and symphonic literature to be studied. Designed for singers with previous choral experience. Public performance is required. Repeatable 3 times. <i>One hour lecture, two hours activity, and one hour weekly by arrangement.</i>		<i>Prerequisite: Music 29.</i> <i>Course Advisories: SCC minimum English and Math 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>	
<b>MUSIC 25</b>	<b>2 Units</b>	<b>MUSIC 31</b>	<b>1.5 Units</b>
<b>Chamber Choir (F/S-Day)</b>		<b>Class Lessons in Woodwinds</b>	
The study and performance of choral works for the small ensemble. Performance at public concerts required. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</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>	
<b>MUSIC 26</b>	<b>2 Units</b>		
<b>Vocal Jazz Ensemble</b>			
The study and performance of choral works in the vocal jazz idiom, including development of reading and improvisation skills. Vocalists work with a jazz rhythm section and instrumentalists. Repeatable 3 times. <i>One hour lecture, two hours lab and one hour weekly by arrangement.</i>			

# Music

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<b>MUSIC 32</b> <b>Class Lessons in Brass</b> 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>	<b>1.5 Units</b>	<b>MUSIC 36B</b> <b>Intermediate Voice II</b> <i>Prerequisite: Music 36A or equivalent skills.</i> A continuation of Music 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. <i>One hour lecture, one hour activity.</i>	<b>1.5 Units</b>
<b>MUSIC 33</b> <b>Class Lessons in Strings</b> Class instruction in string. Transfer students are required to study four semesters in their major instrument. Repeatable 3 times. <i>Two hours lab.</i>	<b>1 Unit</b>	<b>MUSIC 37</b> <b>Elementary Organ</b> <i>Prerequisite: Must be able to read music. Course Advisory: Music 27 recommended.</i> Class instruction in the fundamentals and techniques of organ playing including liturgical, popular, and combo music. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	<b>1.5 Units</b>
<b>MUSIC 34</b> <b>Class Lessons in Percussion</b> 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, one hour activity.</i>	<b>1.5 Units</b>	<b>MUSIC 38</b> <b>Class Lessons in Beginning Guitar</b> 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 Music 38, 39 and 62 may not exceed 4 units. <i>One hour lecture, one hour activity.</i>	<b>1.5 Units</b>
<b>MUSIC 35A</b> <b>Beginning Voice I</b> <i>Course Advisory: SCC minimum English standard.</i> Group work on the fundamental techniques of singing, including literature of the musical theater. 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>	<b>1.5 Units</b>	<b>MUSIC 39</b> <b>Class Lessons in Intermediate Guitar</b> <i>Prerequisite: Music 38 or equivalent as assessed by instructor and ability to read simple guitar music.</i> 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 Music 38, 39 and 62 may not exceed 4 units. <i>One hour lecture, one hour activity.</i>	<b>1.5 Units</b>
<b>MUSIC 35B</b> <b>Beginning Voice II</b> <i>Prerequisite: Music 35A or equivalent.</i> A continuation of Music 35A. Group work on the fundamental techniques of singing, including study of standard vocal literature for solo performance, with increased emphasis in developing performance skills. <i>One hour lecture, one hour activity.</i>	<b>1.5 Units</b>	<b>MUSIC 41A</b> <b>Music Majors Piano</b> <i>Course Advisories: Note reading and SCC minimum English and math standards.</i> 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. <i>One hour lecture, one hour activity.</i>	<b>1.5 Units</b>
<b>MUSIC 36A</b> <b>Intermediate Voice I</b> <i>Prerequisite: Music 35B or evidence of equivalent skills.</i> A continuation of Music 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>	<b>1.5 Units</b>		

<b>MUSIC 41B</b>	<b>1.5 Units</b>	<b>MUSIC 47</b>	<b>1 Unit</b>
<b>Music Majors Piano</b> <i>Prerequisite: Music 41A. Course Advisory: SCC minimum English standard.</i> 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. <i>One hour lecture, one hour activity.</i>		<b>Choral Conducting</b> <i>Prerequisite: Ability to read music.</i> Choral conducting theory and techniques, including a study of standard literature for choir and chamber choir. Written and practical tests required. <i>Two hours lecture (9 week course).</i>	
<b>MUSIC 42A</b>	<b>1.5 Units</b>	<b>MUSIC 49</b>	<b>1-3 Units</b>
<b>Jazz and Pop Piano</b> <i>Prerequisite: Music 27, 28, or equivalent as determined by instructor.</i> 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. <i>One hour lecture, one hour activity.</i>		<b>Music Honors</b> <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. Course Advisory: SCC minimum English standard.</i> 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. May be repeated to a maximum of 6 units, including initial enrollment. <i>Three to nine hours weekly by arrangement.</i>	
<b>MUSIC 42B</b>	<b>1.5 Units</b>	<b>MUSIC 51</b>	<b>1.5 Units</b>
<b>Jazz and Pop Piano</b> <i>Prerequisite: Music 27, 28, or equivalent as determined by instructor. Course Advisory: Music 42A.</i> 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 42A. 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. <i>One hour lecture, one hour activity.</i>		<b>Jazz and Popular Solo Voice</b> <i>Course Advisories: SCC minimum English standard; Music 35A or other solo voice experience.</i> 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. Repeatable 3 times. <i>One hour lecture, one hour activity.</i>	
<b>MUSIC 46</b>	<b>1 Unit</b>	<b>MUSIC 52</b>	<b>2 Units</b>
<b>Instrumental Conducting</b> <i>Prerequisite: Ability to read music.</i> Instrumental conducting theory and techniques including a study of standard literature for band and orchestra. Written and practical tests required. <i>Two hours lecture (9 week course).</i>		<b>Sound Recording</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>One hour lecture, three hours lab.</i>	
		<b>MUSIC 53</b>	<b>2 Units</b>
		<b>Advanced Sound Recording</b> <i>Prerequisite: Music 52. Course Advisories: SCC minimum English and math standards.</i> Advanced recording techniques with particular attention given to hands-on techniques. <i>One hour lecture, three hours lab.</i>	

# Music

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## MUSIC 55

3 Units

### Introduction to Jazz Improvisation

*Course Advisory: Knowledge of music fundamentals and basic instrumental skills.* Techniques and literature of improvisation including application of scales, modes, harmonic progressions, solo shape, form, and dynamic, rhythmic, and melodic development and interpretation of concepts and materials in the jazz style. Provides development and understanding of these techniques in the occupational areas of music through the concepts and performance of improvisation. *Two hours lecture, one hour activity, one hour weekly by arrangement.*

## MUSIC 56

2 Units

### Jazz Improvisation Ensemble

*Course Advisory: Music 55.* 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.*

## MUSIC 60

.5 -3 Units

### Computer Assisted Music Lab

*Course Advisory: Music 27.* 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 hour lecture and up to five hours weekly by arrangement.*

## MUSIC 61

2 Units

### MIDI-Computer Music Sequencing and Scoring

*Course Advisories: SCC minimum English and math standards; MUSIC 27.* Introduction to Musical Instrument Digital Interface (MIDI) and the hardware and software components of music sequencing and scoring. Includes "hands-on" familiarization with Macintosh computer, practical use of sequencing and scoring software, and an understanding of MIDI terminology. May be repeated to a maximum of 6 units, including initial enrollment. *One hour lecture, two hours activity.*

## MUSIC 62

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 Music 38, 39 and 62 may not exceed 4. *One hour lecture, one hour activity.*

## MUSIC 63

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.*

## MUSIC 64

.5, 1, 1.5 or 2 Units

### Marching Band

*Course Advisories: SCC minimum English standard; p lay a band instrument.* An instrumental performing ensemble using marching band repertoire. Repeatable 3 times. *One to six hours activity.*

### Special Topics

These courses, numbered 48, 98, 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.

## Description

OCCED 90 and 91 are work experience courses available to all occupational education certificate and degree program 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.

### OCCED 90 Occupation Work Experience

*Corequisite: Student must be enrolled in 7 units (including OCCED 90). For summer sessions, the student must be enrolled in at least one other course. Student should be enrolled in at least one course in his/her major OR enrolled in at least one general education course required for graduation. Student must be available to work from 5 to 20 hours or more per week for a licensed business for a total of 75 hours per unit paid and 60 hours per unit unpaid. Duties must be related to student's major field. Course Advisories: SCC minimum English and math standards.* Includes all occupational education certificate and degree programs. Qualified students who are not working may seek placement assistance from the Student Placement Office. One unit of credit may be earned for each 75 hours paid or 60 hours unpaid work per semester to a maximum of 4 units per semester. Repeatable to a maximum of 12 units. Combined units in all work experience courses shall not exceed 12. To determine the correct course length and number of units in which to enroll, refer to the following formula for paid employment (unpaid work requires fewer hours per week):

#### Full Semester Sections

1 unit = 5 work hours per week  
2 units = 10 work hours per week  
3 units = 15 work hours per week  
4 units = 20 work hours per week

#### 12-Week Sections

1 unit = 7 work hours per week  
2 units = 14 work hours per week  
3 units = 19 work hours per week

#### 8-Week Sections

1 unit = 10 work hours per week  
2 units = 19 work hours per week

### OCCED 91 General Work Experience

*Corequisite: Student must be enrolled in 7 units (including OCCED 91). For summer sessions, the student must be enrolled in at least one other course. Student must be available to work from 5 to 15 hours or more per week for a licensed business for a semester total of 75 hours per unit paid and 60 hours per unit unpaid. Job does not need to be related to major. Course Advisories: SCC minimum English and math standards.* To qualify for OCCED 91 credit, the student must be working at a job with a licensed business, attend a weekly coordination seminar, develop job-oriented objectives and remain currently enrolled in at least 7 units, including OCCED 91. Includes all occupational education certificate and degree programs. Qualified students who are not working may seek placement assistance from the Student Placement Office. 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. Repeatable to a maximum of 6 units. Combined units in all work experience courses shall not exceed 12. To determine the correct course length and number of units in which to enroll, refer to the following formula for paid employment (unpaid work requires fewer hours per week):

#### Full Semester Sections

1 unit = 5 work hours per week  
2 units = 10 work hours per week  
3 units = 15 work hours per week

#### 12-Week Sections

1 unit = 7 work hours per week  
2 units = 14 work hours per week

#### 8-Week Sections

1 unit = 10 work hours per week

# Office Technology

Business & Computer Science Division

## 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.

## Required Courses

### *Administrative Assistant*

(Recommended sequence)

	Units		Units
CIS 66—Microsoft Word	3	OT 56—Adv. Keyboarding/Word Processing	3
OT 55—Interm. Keyboarding/Word Processing	3	OT 162—Ten Key	1
CIS 1—Introduction to Computers		Electives selected from the list of Recommended Electives	<u>3.5</u>
OR			31.5
CIS 50—Microcomputer Applications	3	<b>Recommended Electives:</b>	
BUS 92—Business Communication	3	ACCT 180	
CIS 73—Microsoft Excel	3	CIS 55, 61, 78, 93	
OT 159—Filing and Records Mgmt (spring)	2	MGMT 55	
OT 151—Office Systems/Procedures (spring)	3	OCCED 90, 91	
OCCED 90—Occupation Work Experience	1	OT 57, 131,160	
CIS 91—Microsoft Outlook	1.5		
CIS 90—Introduction to PowerPoint	1.5		

### *Legal Specialist*

(Recommended sequence)

	Units		Units
OT 55—Interm. Keyboarding/ Word Processing	3	OT 131—Legal Machine Transcription	3
OT 57—Legal Keyboarding/ Word Processing	3	CRIMJ 1—Introduction to Criminal Justice	3
CIS 63—WordPerfect			3
OR		OT 56—Advanced Keyboarding/Word Processing	3
CIS 66—Microsoft Word	3	OT 159—Filing & Records Management	2
BUS 92—Business Communication	3	OT 151—Office Systems/Procedures (spring)	3
BUS 18—Legal Environment of Business	3	OCCED 90—Occupational Work Experience	1
		CIS 91-Microsoft Outlook	<u>1.5</u>
			31.5
		<b>Recommended Electives:</b>	
		ACCT 180	

## Medical Office Specialist

(Recommended sequence)

	Units	
NURSE 111—Medical Terminology	3	<b>Recommended Electives:</b> ACCT 180 CIS 1 or 50, 73, 78, 90, 91 MGMT 55 OCCED 90 OT 56, 121  * International Classification of Diseases, 9th Clinical Modification ** Current Procedural Terminology
OT 59—Medical Keyboarding/Computer Appl.	3	
CIS 66—Microsoft Word	3	
OT 101—Human Diseases	3	
BUS 92—Business Communication	3	
OT 159—Filing & Records Management	2	
OT 63—Intro. to ICD-9-CM Coding*	3	
OT 64—Interm. ICD-9-CM Coding	3	
OT 66—CPT-IV Coding**	3	
OT 151—Office Systems/Procedures (spring)	3	
OCCED 90—Occupational Work Experience	1	
OT 55-Intermediate Keyboarding/Word Processing	3	
	33	

## Medical Transcription Specialist

(Recommended sequence)

	Units		Units
CIS 66—Microsoft Word	3	OT 160—Business Transcription	3
OT 55—Interm. Keyboarding/ Word Processing	3	Electives selected from the list of Recommended	
NURSE 111—Medical Terminology	3	Electives	3
OT 59—Medical Keyboarding & Computer Apps	3		33
OT 101—Human Diseases	3	<b>Recommended Electives:</b>	
OT 121 to 124—Med. Machine Trans. I, II, III, IV	12	OT 56, 63/64, 66, 100	
		OCCED 90	

## Job-Direct Certificate Requirements

For each of the following programs, the required courses must be completed with a grade of "C" or better.

### General Office Assistant

<b>Required Courses</b>	<b>Units</b>
OT 54—Beginning Keyboarding	3
BUS 100—Work Readiness	1.5
CIS 66—Microsoft Word	3
CIS 91—Microsoft Outlook	1.5
CIS 90—Introduction to PowerPoint	1.5
CIS 73 —Microsoft Excel	3
OT 162—Ten Key	1
	14.5

### Legal Office Assistant

<b>Required Courses</b>	<b>Units</b>
OT 55—Interm. Keyboarding/WP	3
BUS 100—Work Readiness	1.5
CIS 63—WordPerfect OR	
CIS 66—MS Word	3
OT 57—Legal Keybding/Word Processing	3
OT 131—Legal Machine Transcription	3
OT 162—Ten Key	1
	14.5

### Medical Office Assistant

<b>Required Courses</b>	<b>Units</b>
OT 54—Beginning Keyboarding	3
BUS 100—Work Readiness	1.5
CIS 66—Microsoft Word	3
NURSE 111—Medical Terminology	3
OT 59—Medical Keyboarding /Computer Applic.	3
OT 162—Ten Key	1
	14.5

### Retail Clerk

<b>Required Courses</b>	<b>Units</b>
MKT 174—Retail Merchandising	3
BUS 181—Business Math	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
	9.5

# Office Technology

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- OT 54** **1-3 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 55** **1-3 Units**
- Intermediate Keyboarding/Word Processing**  
*Prerequisites: Completion of all modules of OT 54 or passing the OT 55 placement test; concurrent enrollment or successful completion of CIS 63 or CIS 66. 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 56** **1-3 Units**
- Advanced Keyboarding/Word Processing**  
*Prerequisites: Completion of all modules of OT 55 with a grade of "C" or "CR" or better. 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 57** **3 Units**
- Legal Keyboarding/Word Processing**  
*Prerequisites: Completion of all modules of OT 55 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.*
- OT 59** **3 Units**
- Medical Keyboarding and Computer Applications**  
*Prerequisites: Completion of all modules of OT 54 with a grade of "C" or "CR" or better or passing the OT 59 placement test; Nursing 111 (or concurrent enrollment) or successful completion of a medical terminology exam. 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 63** **3 Units**
- Introduction to ICD-9-CM Coding**  
*Prerequisites: OT 101; NURSE 111 (or successful completion of the challenge test). 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 64** **3 Units**
- Intermediate ICD-9-CM Coding**  
*Prerequisites: OT 63 (or successful completion of a challenge test). Course Advisory: SCC minimum English standard. This course will build on the previous knowledge gained in OT 63 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 66** **3 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.*

<b>OT 100</b> <b>Skill Building on the Computer Keyboard</b> <i>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.</i>	<b>1 Unit</b>	<b>OT 122</b> <b>Medical Transcription II</b> <i>Prerequisite: OT 121. Vocabulary building and transcription of medical records in specialty areas of cardiology, endocrinology, gastroenterology, gynecology, internal medicine, and oncology. Three hours lecture, two hours lab.</i>	<b>3 Units</b>
<b>OT 101</b> <b>Study of Human Diseases for Medical Assistants</b> <i>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.</i>	<b>3 Units</b>	<b>OT 123</b> <b>Medical Transcription III</b> <i>Prerequisites: OT 122. Course Advisory: SCC minimum English standard. Vocabulary building and transcription of medical reports in specialty areas of radiology, psychiatry, neurology and neurosurgery, emergency medicine, laboratory medicine, and general surgery. Three hours lecture, two hours lab.</i>	<b>3 Units</b>
<b>OT 109</b> <b>Fast Track Records Control/Filing</b> <i>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).</i>	<b>.5 Units</b>	<b>OT 124</b> <b>Medical Transcription IV</b> <i>Prerequisites: OT 123. Course Advisory: SCC minimum English standard. Vocabulary building and transcription of medical reports in specialty areas of orthopedics, pediatrics, respiratory and pulmonary medicine, immunology and AIDS, plastic surgery, and urology. Three hours lecture, two hours lab.</i>	<b>3 Units</b>
<b>OT 121</b> <b>Medical Transcription I</b> <i>Prerequisite: Successful completion of OT 55 or OT 56 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. 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. Three hours lecture, two hours lab.</i>	<b>3 Units</b>	<b>OT 131</b> <b>Legal Transcription</b> <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. 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. Three hours lecture, two hours lab.</i>	<b>3 Units</b>
		<b>OT 151</b> <b>Office Systems &amp; Procedures</b> <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. An advanced level course designed to complete the training of Office Technology program students in office systems and procedures. Course should be taken during the student's final semester of the program or as a refresher for experienced business students. One unit of work experience will be required in the specialty area of the student's major. Three hours lecture.</i>	<b>3 Units</b>

# Office Technology

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**OT 159**

**2 Units**

## **Filing and Records Management**

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

**OT 160**

**3 Units**

## **Business Transcription**

*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.* 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. *Three hours lecture, two hours lab.*

**OT 162**

**1 Unit**

## **Ten Key**

*Course Advisories: SCC minimum English and math standards.* Individualized course offering the fundamentals of operating the ten-key microcomputer number keypad. The touch system of operation and continuous speed and accuracy development are emphasized throughout the course. This is an open entry/open exit course. *One hour lecture, one-half hour lab.*

# Ornamental Horticulture

Career Technical Education Division

## 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 upon completion of one of the majors listed below. The Associate in Science 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.

## Required Courses

### *Horticulture Science*

	Units
OHORT 6—ID & Ecology of Landscape Plant Materials	4
OHORT 30—Landscape Design I	3
OHORT 50—Intro. to Orn. Hort.	3
OHORT 55—Soils & Fertilizers	3
OHORT 56—Plant Pest Control & Mgmt.	4
OHORT 60—Comm. Nursery Practices	3
OHORT 66—Landscape Installation & Maintenance	3
OHORT 67—Landscape Equip. Operation Planning	
OR	
OHORT 80—Flower Arranging	3
	<u>26</u>

### *Nursery Production*

	Units
OHORT 6—ID & Ecology of Landscape Plant Materials	4
OHORT 50—Intro. to Orn. Hort.	3
OHORT 55—Soils & Fertilizers	3
OHORT 56—Plant Pest Control & Mgmt.	4
OHORT 60—Comm. Nursery Practices	3
OHORT 61—Plant Propagation	3
OHORT 62—Greenhouse Crops	3
	<u>23</u>

### *Landscape Maintenance*

	Units
OHORT 6—ID & Ecology of Landscape Plant Materials	4
OHORT 50—Intro. to Orn. Hort.	3
OHORT 55—Soils & Fertilizers	3
OHORT 56—Plant Pest Control & Mgmt.	4
OHORT 65—Pruning Principles	3
OHORT 66—Landscape Installation & Maint. I	3
OHORT 71—Irrigation Principles	3
	<u>23</u>

# Ornamental Horticulture

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## *Landscape Practices*

	<b>Units</b>
OHORT 6—ID & Ecology of Landscape Plant Materials	4
OHORT 30—Landscape Design I	3
OHORT 50—Intro. to Orn. Hort.	3
OHORT 55—Soils & Fertilizers	3
OHORT 56—Plant Pest Control & Mgmt.	4
OHORT 66—Landscape Installation & Maintenance	3
OHORT 70—Landscape Construction & Estimation	<u>3</u>
	23

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## *Commercial Floral Practices*

	<b>Units</b>
OHORT 6—ID & Ecology of Landscape Plant Materials	4
OHORT 50—Intro. to Orn. Hort.	3
OHORT 55—Soils & Fertilizers	3
OHORT 56—Plant Pest Control & Mgmt.	4
OHORT 80—Comm. Flower Arranging	3
OHORT 81—Comm. Floral Design	3
OHORT 82—Comm. Florist Operations & Practices	<u>3</u>
	23

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## *Turf Management*

	<b>Units</b>
OHORT 6—ID & Ecology of Landscape Plant Materials	4
OHORT 50—Intro. to Orn. Hort.	3
OHORT 55—Soils & Fertilizers	3
OHORT 56—Plant Pest Control & Mgmt.	4
OHORT 71—Irrigation Principles	3
OHORT 85—Turf Maintenance & Management	3
OHORT 86—Park Mgmt Planning	<u>3</u>
	23

### **Recommended Electives for all Ornamental Horticulture Programs**

AGBUS 101, 102  
ACCT 1  
DRAFT 50, 55, 45  
OCCED 90, 91  
OHORT 95, 150, 171, 172, 173, 175, 176, 177

Students interested in pursuing knowledge or a degree in Viticulture should contact Napa Valley College's Viticulture & Winery Technology Coordinator, (707) 253-3259, or the Napa Valley College Dean of Instruction's Office, (707) 253-3100.

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# Ornamental Horticulture

## Job-Direct Certificate Requirements

For each of the following programs, the required courses must be completed with a grade of "C" or better.

### Floral Worker

	Units
OHORT 175—Intro. to Product Care & Handling	1
OHORT 176—Intro. to Retail & Seasonal Counter Sales	1
OHORT 177—Intro. to Display Area Setup & Maintenance	1
*OCCED 90—Occupational Work Experience	1
	4

### Landscape Worker

	Units
OHORT 171—Intro. to Landscape Practices	1
OHORT 172—Intro. to Landscape Equipment	1
OHORT 173—Intro. to Landscape Irrigation	1
*OCCED 90—Occupational Work Experience	1
	4

\*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

### **OHORT 6**

**4 Units**

#### **Identification and Ecology of Landscape Plant Materials**

*Course Advisories: OHORT 50 and SCC minimum English standard.* 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.*

### **OHORT 30**

**3 Units**

#### **Landscape Design I**

*Prerequisites: OHORT 6. Course Advisory: OHORT 50.* 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.*

### **OHORT 31**

**3 Units**

#### **Landscape Design II**

*Prerequisites: OHORT 30. Course Advisory: OHORT 50.* Presents the association of plant materials according to design principles and their environmental requirements with attention to groupings, arrangements and planting about buildings and other landscape structures. Landscape drafting will be stressed in the laboratory projects culminating in a term design project. Mandatory field trips. *Two hours lecture, three hours lab.*

### **OHORT 50**

**3 Units**

#### **Introduction to Ornamental Horticulture**

*Course Advisory: SCC minimum English standard.*

Introduction and preview of the nursery, florist, and landscaping industries including elemental landscape design, flower arranging, plant identification, plant propagation, landscape tools, turf care, pest control, soil testing and basic botany. Laboratory experience will develop beginning techniques in propagation, soil testing, and turf and shrub maintenance. Mandatory field trips will be taken to various phases of the industry. *Two hours lecture, three hours lab.*

### **OHORT 55**

**3 Units**

#### **Soil and Fertilizers**

*Course Advisories: SCC minimum English and math standards.* Study of the relationships of soils and fertilizers to proper plant growth and emphasizes analysis of soils and fertilizers. Field laboratories will develop management techniques in testing and application through exercises and field trip observations. *Two hours lecture, three hours lab.*

### **OHORT 56**

**4 Units**

#### **Landscape Pest Control and Management**

*Course Advisories: SCC minimum English and math standards.* Study of horticultural pests, insects, weeds, diseases and other non-pathogenic causes common to the Solano County area emphasizing identification, cultural, rotational, natural and chemical control methods. Mandatory field trips and laboratory experiences will provide experiences in detection, identification and techniques necessary to manage and control various species of plant pests. A collection is required. Repeatable 1 time. *Three hours lecture, three hours lab.*

# Ornamental Horticulture

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## OHORT 60

3 Units

### Commercial Nursery Practices

*Course Advisories: SCC minimum English and math standards; OHORT 50.* Presents commercial nursery operations, layout and cultural practices emphasizing environmental control for ornamental plants from seeds or cuttings to retail sale. Laboratory experience will develop the student's ability and techniques through exercises, field trip observations and a term project. *Two hours lecture, three hours lab.*

## OHORT 61

3 Units

### Plant Propagation

*Prerequisite: OHORT 60. Course Advisories: SCC minimum English and math standards; OHORT 50.* Presents the methods of plant propagation by budding, grafting, layering, separations, cuttings and seeds used commercially for industry applications. Laboratory experience will incorporate the performance of propagation skills and techniques. A field trip to a commercial production nursery and a term project will be required. *Two hours lecture, three hours lab.*

## OHORT 62

3 Units

### Greenhouse Crops

*Prerequisite: OHORT 60 or 61. Course Advisories: SCC minimum English and math standards; OHORT 50.* Study of the operations and practices in greenhouse plant production with emphasis on cut flowers, bedding plants, potted plants and vegetables grown for market. Laboratory experience will emphasize plant growth and care within the greenhouse structures through student projects, term reports and mandatory field trips. Repeatable 1 time. *Two hours lecture, three hours lab.*

## OHORT 65

3 Units

### Pruning Principles and Practices

*Course Advisories: SCC minimum English and math standards; OHORT 50.* Presents the fundamentals, objectives and effects of pruning landscape annuals, herbaceous and woody perennials, deciduous and evergreen trees and shrubs. Laboratory experience will develop the skills of proper tool use and the training, modifying, improving and maintaining landscape plants through selected activities and mandatory field trip situations. *Two hours lecture, three hours lab.*

## OHORT 66

3 Units

### Landscape Installation and Maintenance

*Course Advisories: SCC minimum English and math standards; OHORT 50.* Introduction to the skills and techniques of landscape maintenance practices with emphasis on care and maintenance of trees, shrubs, ground covers, and lawns. Field laboratories will develop the appropriate skills in cultural practices and handtool operation. Field trips are required. *Two hours lecture, three hours lab.*

## OHORT 67

3 Units

### Landscape Equipment Operation and Planning

*Prerequisite: OHORT 66.* A study of the maintenance of commercial landscaped areas with special emphasis on developing skills in power equipment operation and maintenance, scheduling, estimating and bidding relative to the care and maintenance of ornamental landscaped areas. Field laboratories will develop the appropriate techniques in equipment operation and exercises in bidding and estimation. Term project required. *Two hours lecture, three hours lab.*

## OHORT 70

3 Units

### Landscape Construction and Estimation

*Course Advisories: SCC minimum English and math standards; OHORT 50.* Study of the construction of patios, decks, walks, retaining walls, raised planters, mowstrips, fences, overhead structures, masonry work, sprinkler layout and other landscape features with emphasis on building code specifications. Previews contractor's licensing. Site development and construction skills will be developed during the laboratory. *Two hours lecture, three hours lab.*

## OHORT 71

3 Units

### Irrigation Principles

*Course Advisories: SCC minimum English and math standards; OHORT 55.* Study of the principles and management of water development and use in agricultural and horticultural production with special emphasis on water supplies, measurement, movement through soils, application methods, amounts needed and problems of distribution. The field laboratories will develop management techniques through exercises and field trip observations. *Two hours lecture, three hours lab.*

# Ornamental Horticulture

<b>OHORT 80</b> <b>Commercial Flower Arranging</b> <i>Course Advisory: SCC minimum English standard.</i> Commercial use and conditioning of flowers and related materials in making flower arrangements and a study of the basic principles of design in relation to the use of flowers, seasonal arrangements, the planting of indoor planters, simple corsage wiring, basic bowmaking and stem wrapping as performed in flower shop operations. Repeatable 1 time. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>	<b>OHORT 86</b> <b>Park Management Planning</b> <i>Prerequisite: OHORT 30, 85. Course Advisory: OHORT 50.</i> Study of the design, installation and maintenance of city, county and state parks and recreational maintenance areas with special emphasis on skills development. Field laboratories will develop technician proficiencies and special skills in this area. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>
<b>OHORT 81</b> <b>Commercial Floral Design</b> <i>Course Advisories: OHORT 50 and 80; SCC minimum English standard.</i> Commercial application of advanced floral designs for wedding, receptions, large gatherings, funeral pieces, hospital flowers, and holiday designs; use of dry and silk flowers, care and maintenance of floral pieces and use of specialty containers, mechanics, and pricing will be covered. Field trips will be taken and special lectures given on various phases of the floral industry. Repeatable 1 time. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>	<b>OHORT 95</b> <b>Pesticide Application and Safety Training</b> <i>Course Advisory: SCC minimum English standard.</i> Specialized study of the selection, handling, application and safety of using agriculture pesticides with emphasis on rules and regulations to include ornamentals, turf grass, right-of-way, aquatic, forest, agricultural, industrial and institutional pest control. Intensive training provided for pesticide application, operation and certification preparation. This is a credit/no credit course. Repeatable to a maximum of 40 hours (or 4 enrollments) during a two-year period as dictated by the State of California Dept. of Food & Agriculture Pesticide Licensing Division. <i>Two and one-half hours (4 week course).</i>	<b>.5 Unit</b>
<b>OHORT 82</b> <b>Commercial Florist Operations Planning</b> <i>Course Advisories: OHORT 80 and OHORT 50; SCC minimum English standard.</i> Development of commercial skills and techniques in the application of practices of flower shop operations with emphasis on the layout, displays, planning, ordering, handling, processing and scheduling of floral products. Requires student laboratory projects, reports and field trip experience. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>	<b>OHORT 150</b> <b>Plant Identification</b> <i>Course Advisory: SCC minimum English standard.</i> Presents methods of identifying landscape plant material with emphasis on cultural habits, requirements and use of ornamental trees, shrubs, vines, ground covers used in this area. Includes landscape tours at off-campus settings. Repeatability 1 time. <i>Two hours lecture.</i>	<b>2 Units</b>
<b>OHORT 85</b> <b>Turf Maintenance and Management</b> <i>Course Advisories: SCC minimum English and math standards; OHORT 50, 71.</i> Study of the production and maintenance of turf for lawns, public parks, institutions, recreation areas and golf courses with emphasis on turf varieties, uses, irrigation, conditioning and fertilization, pest control, and equipment operation. Laboratory will develop techniques of maintenance, variety identification and skills of application and use through exercises and field trip observations. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>	<b>OHORT 168</b> <b>LandCAD Design</b> <i>Prerequisites: OHORT 30; DRAFT 45.</i> Presentation of landscape design with emphasis on public-use areas including contemporary goals, site plan development, evaluation, job bid estimates using computer assisted drafting develop skills and abilities. A term project is required. Repeatable 1 time. <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>
		<b>OHORT 171</b> <b>Introduction to Landscape Practices</b> <i>Course Advisories: SCC minimum English and math standards.</i> Provides basic entry level skills in landscape practices as required in the landscape construction and maintenance industry with emphasis on cultural practices related to turf grass, trees, shrubs and groundcovers including planting, watering, mowing, fertilizing, controlling pests and pruning. <i>One hour lecture, four hours lab (8 week course).</i>	<b>1 Unit</b>

# Ornamental Horticulture

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**OHORT 172**

**1 Unit**

## **Introduction to Landscape Equipment**

*Course Advisories: SCC minimum English and math standards.* Provides basic entry level skills as required in the landscape maintenance industry with emphasis on operation, maintenance and safety of mowers, edgers, blowers, sprayers, spreaders, tillers, aerators, and other powered landscape equipment. Students will be required to work out of doors in any type of weather. *One hour lecture, four hours lab (8 week course).*

**OHORT 173**

**1 Unit**

## **Introduction to Landscape Irrigation**

*Course Advisories: SCC minimum English and math standards.* Provides basic entry level skills as required in the landscape construction and maintenance industry with emphasis on irrigation system operation and maintenance of controllers, timers, valves, heads, emitters, pipe and fittings including trouble shooting and repair. Student may be required to work out of doors in any type of weather. *One hour lecture, four hours lab (8 week course).*

**OHORT 175**

**1 Unit**

## **Introduction to Flower Products Care and Handling**

*Course Advisories: SCC minimum English and math standards.* Provides entry level skills in the use and care of cut flowers, live plants, gift lines, tools, and supplies as used in a retail floral shop with emphasis on flower identification, pricing and handling. *One hour lecture, four hours lab (8 week course).*

**OHORT 176**

**1 Unit**

## **Introduction to Retail and Seasonal Counter Sales**

*Course Advisories: SCC minimum English and math standards.* Develops the skills used in retail floral routine, seasonal and holiday salesmanship with emphasis on effective selling techniques as applied to telephone, wire service and counter orders. *One hour lecture, four hours lab (8 week course).*

**OHORT 177**

**1 Unit**

## **Introduction to Display Area Setup and Maintenance**

*Course Advisories: SCC minimum English and math standards.* Provides entry level skills in retail display and merchandising of sales floor dry goods and live products in the operations of a floral shop or center with emphasis on display concepts, merchandizing, fixtures, props and related maintenance. *One hour lecture, four hours lab (8 week course).*

**OHORT 190**

**1 Unit**

## **Vegetable Gardening**

*Course Advisory: SCC minimum English standard.* Designed to provide theoretical background and current concepts in vegetable gardening techniques. Students will be introduced to various soils, planting, watering, fertilization, pest control, preharvest culture and harvest as related to the latest vegetable gardening procedures. Repeatable 1 time. *Two hours lecture (9 week course).*

## **Special Topics**

These courses, numbered 98 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.

## 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 available in this discipline.

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<b>PHLOS 1</b> <b>Introduction to Critical Thinking and Reasoning</b> <i>Course Advisory: ENGL 1 or ENGL 62.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>PHLOS 5</b> <b>Critical Thinking: The Philosophic Grounds of Literacy</b> <i>Prerequisite: Engl 1. Course Advisory: SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>PHLOS 3</b> <b>Introduction to Philosophy</b> <i>Course Advisory: ENGL 1 or ENGL 62.</i> 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. Critical reading and writing are required. (CAN PHIL 2). <i>Three hours lecture.</i>	<b>3 Units</b>	<b>PHLOS 31</b> <b>Introduction to World Religions of the East</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>PHLOS 4</b> <b>Introduction to Moral Philosophy</b> <i>Course Advisory: ENGL 1 or ENGL 62.</i> Introduction to moral philosophy and major ethical theories of the Western philosophical tradition. Critical reading and writing are required. (CAN PHIL 4). <i>Three hours lecture.</i>	<b>3 Units</b>	<b>PHLOS 32</b> <b>Introduction to World Religions of the West</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	<b>3 Units</b>

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# Photography, Professional

Fine & Applied Arts/Behavioral Sciences Division

## Program Description

Pre-employment training in professional photography is designed to prepare students for self-employment and employment in the private and public sectors and covers a broad spectrum of photographic fields, e.g., advertising illustration, industrial, portraiture, medical, commercial, photojournalism, and landscape.

## Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 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.

## Required Courses

	Units	Recommended Electives:
PHOTO 30—Beginning Photography	3	ART 11, 54, 56, 60
PHOTO 53—Introduction to Color Photography	3	CINMA 10
PHOTO 151—Professional Photography: Intro.	4	MGMT 184
PHOTO 152—Professional Photography: Portraiture	4	MKT 171
PHOTO 153—Professional Photo: Product & Advert.	4	OCCED 90
PHOTO 154—Professional Photo: Interior & Exterior	4	PHOTO 35, 52, 54, 55, 58, 59
PHOTO 156—Portfolio Development	3	
PHOTO 170—Beginning Digital Imaging	3	
ART 6—Design Principles in 2-Dimensions	3	
<b>Select 3 units from one of the following</b>	<b>3</b>	
PHOTO 56—Photojournalism & Documentary Photo.		
PHOTO 31—Intermediate Photography		
PHOTO 57—Special Projects		
PHOTO 155—Professional Photo: Travel Photo.		
Total Required Units:	34	

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*Camera equipment for photography classes is not provided by the College. Students registering for these courses must have available a 35 mm camera or equivalent. Material costs are approximately \$100 per course.*

**PHOTO 30** **3 Units**  
**Beginning Photography**  
Introduction to black and white photography, including a brief history and discussion of image composition, with special emphasis on darkroom technique and photographic principles and materials. Prerequisite to the Professional Photography program and most other photography classes. (CAN ART 18). *Two hours lecture, three hours lab.*

**PHOTO 31** **3 Units**  
**Intermediate Photography**  
*Prerequisite: PHOTO 30. Course Advisories: SCC minimum English and math standards. The application of the principles of composition, design, subject, form and content. Techniques are applied to exposure, development, and printing considerably beyond the scope of PHOTO 30. Written exams and semester projects required. Two hours lecture, three hours lab.*

# Photography

- PHOTO 35** 3 Units  
**The Art of Photography**  
*Course Advisory: ENGL 1.* Learn to make better photographs through the survey of 19th and 20th Century master photographers as a vehicle for the development of student's own photographs. Students will have the opportunity to develop a sense of color and to apply principles learned through taking pictures in 35mm slide format. Gallery visitations and critical written reviews are a part of the comprehensive course. 35 MM camera required. *Three hours lecture.*
- PHOTO 52** 3 Units  
**Creative Photography**  
*Prerequisite: PHOTO 31.* Students experiment with photographic and non-photographic materials to create visual images and statements. Quizzes, laboratory notebook, and final portfolio required. *Two hours lecture, three hours lab.*
- PHOTO 53** 3 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.*
- PHOTO 54** 3 Units  
**Intermediate Color Photography**  
*Prerequisite: PHOTO 53.* Continuation of Photo 53. Advanced techniques, creative ideas, image evaluation and presentation of color prints are emphasized. *Two hours lecture, three hours lab.*
- PHOTO 55** 3 Units  
**Creative Color**  
*Prerequisite: PHOTO 54. Course Advisory: SCC minimum English standard.* Creative innovations and experiments in color photography, including non-silver methods, polaroid transfer, handtinting, iso-expansion, chemical experimentation, image evaluation, printing and exhibiting. *Two hours lecture, three hours lab.*
- PHOTO 56** 3 Units  
**Photojournalism and Documentary Photography**  
*Prerequisite: PHOTO 31. Course Advisory: SCC minimum English standard.* Covers aspects of the camera as a journalistic and documentary tool, including news photography, the journalistic photo-essay, and photodocumentation. Written critiques and projects in each area provide a broad understanding of the field. Repeatable 1 time. *Two hours lecture, three hours lab.*
- PHOTO 57** 3 Units  
**Special Projects**  
*Prerequisite: PHOTO 52 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.*
- PHOTO 58** 3 Units  
**Advanced Black & White Photography (F/S-Night)**  
*Prerequisite: PHOTO 31. Course Advisories: SCC minimum English and math standards.* Emphasizes perfecting visual and technical skills. Includes simple photographic chemistry, the zone system, advanced printing, processing and exhibit preparation. A portfolio and a project in creative photography are required. *Two hours lecture, three hours lab.*
- PHOTO 59** 3 Units  
**Color Portfolio**  
*Prerequisite: PHOTO 54. Course Advisory: SCC minimum English standard.* Provides the advanced color student the opportunity to build upon and expand beyond standardized course instruction. Each student will create and design his/her own portfolio in consultation with the instructor. Each student will exhibit his/her portfolio publicly. *Two hours lecture, three hours lab.*
- PHOTO 99** 2-3 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; permission of the division Dean based on instructor availability.* 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. *Six to nine hours weekly by arrangement.*

# Photography

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## PHOTO 151

4 Units

### Professional Photography: Introduction

*Prerequisite: PHOTO 30. Course Advisories: SCC minimum English and math standards.* 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 35 mm camera (film or digital) is required. *Two hours lecture, six hours lab.*

## PHOTO 152

4 Units

### Professional Photography: Portraiture

*Prerequisite: PHOTO 30. Course Advisories: SCC minimum English and math standards.* This course focuses on varied applications of portrait work in the applied and fine art environments. A 35 mm camera (film or digital) is required. Repeatable 1 time. *Two hours lecture, six hours lab.*

## PHOTO 153

4 Units

### Professional Photography: Product and Advertising

*Prerequisite: PHOTO 30. Course Advisories: SCC minimum English and math standards.* 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 35 mm camera (film or digital) is required. Repeatable 1 time. *Two hours lecture, six hours lab.*

## PHOTO 154

4 Units

### Professional Photography: Portraiture

*Prerequisite: PHOTO 30. Course Advisories: SCC minimum English and math standards.* This course provides the student with skills to photograph architecture in the rural and urban landscape. A 35 mm camera (film or digital) is required. Repeatable 1 time. *Two hours lecture, six hours lab.*

## PHOTO 155

3 Units

### Professional Photography: Travel Photography

*Course Advisories: PHOTO 30 or 35; 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 35 mm camera (film or digital) is required. Students will pay for travel arrangements for this course. Repeatable 3 times. *Eight hours lecture, forty-seven hours lab per week for 2 weeks.*

## PHOTO 156

3 Units

### Portfolio Development

*Prerequisite: PHOTO 151 and one of the following: PHOTO 31, 58, 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.*

## PHOTO 170

3 Units

### Beginning Digital Photography

*Course Advisories: PHOTO 30, PHOTO 35, SCC minimum English and math standards.* Introduces the basic concepts and skills of digital imaging through an in-depth exploration of Adobe Photoshop. This exploration provides students with skills to create their own expressive images. Areas of concern include: color correction, compositing, image manipulation, and retouching, as well as the technical skills necessary for using the computers and software. Scanning, printing, and color management will be discussed. Conceptual and technical assignments will be utilized throughout the semester to support topics covered in class. Digital camera or home computer not required. Repeatable 1 time. *Two hours lecture, three hours lab.*

### Special Topics

These courses, numbered 98 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.

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# Physical Education/Athletics

Physical Education/Athletics Division

## Physical Education

### Program Description

This program offers students activity curriculum, technical skills, and professional development courses to develop fitness or to prepare students for transfer in various fields, including physical education.

### Associate in Science Degree

The Associate in Science Degree can be obtained by completing a total of 60 units, including the 30-unit major, general education requirements and electives.

### Required Courses

	Units
P.E. 20.1—Foundations of Phys. Ed.	3
P.E. 20.2—Care & Prevention of Athletic Injuries	3
P.E. 20.3—Adv. First Aid & Emergency Care	2
P.E. 20.6—Introduction to Sports Science	3
*P.E. Activity Courses	6
BIOSC 6—Human Anatomy	5
BIOSC 5—Intro. to Physiology	5
H ED 2—Health Education	
OR	
H ED 3—Women's Health Issues	3
	30

\*At least one activity course selected from four of the seven listed categories: Aquatics (2.1, 2.2, 2.4, 2.5, 2.6), Combatives (3.1, 3.4, 3.7, 3.8), Dance (4.1, 4.2, 4.4, 4.5, 4.6, 4.7, 4.9, 4.10, 4.11, 4.12), Fitness Courses (5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.7, 5.8, 5.10, 5.13, 6.0, 6.5, 6.6, 73), Individual Sports (7.1, 7.3, 7.4, 7.5, 7.7), Racquet Sports (8.1, 8.2, 8.4, 8.7, 8.8), and Team Sports (9.1, 9.2, 9.4, 9.7, 9.8, 9.10, 9.11, 9.30, or any Intercollegiate Athletics course).

### Recommended Electives:

ANTH 1  
NUTRI 10  
MATH 11  
P.E. -1.5, 4.2, 4.8, 6.6, 20.7, 20.18A&B, 20.19A&B, 20.20A&B, 20.22A&B, 20.23A&B, 20.24A&B, 48G, 55, 71, 148A;  
any activity course listed above not used to satisfy requirements of the major.  
SOCSC 22

# *Physical Education/Athletics*

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## *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.

### **Required Courses**

	Units
PE 20.1—Foundations of PE	3
PE 20.2—Care/Prevention of Athletic Injuries	3
PE 20.3—Advanced First Aid & CPR	2
PE 20.6—Intro. to Sports Science	3
PE 20.7—Concepts of Fitness	3
*PE Activity courses	2-3
BIO5C 5—Physiology	5
BIO5C 6—Human Anatomy	5
CHEM 10—Interm. Chemistry	4
**NUTRI 10—Nutrition	3
	33-34

\*Aquatics (2.1, 2.2, 2.4, 2.5, 2.6), Combatives (3.1, 3.4, 3.7, 3.8), Dance (4.1, 4.2, 4.4, 4.5, 4.6, 4.7, 4.9, 4.10, 4.11, 4.12), Fitness Courses (5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.7, 5.8, 5.10, 5.13, 6.0, 6.5, 7.3), Individual Sports (7.1, 7.3, 7.4, 7.5, 7.7), Racquet Sports (8.1, 8.2, 8.4, 8.7, 8.8), and Team Sports (9.1, 9.2, 9.4, 9.7, 9.8, 9.10, 9.11, 9.30, or any Intercollegiate Athletics course).

\*\*For those transferring to UC in preparation for a physical therapy major, it is recommended that CHEM 11-Basic Organic Chemistry & Biochemistry be taken in place of NUTRI 10.

### **Recommended Electives**

CIS 1  
H ED 2  
MATH 11  
PE 55  
PSYCH 20

# Physical Education/Athletics

## Sports Medicine/Fitness Science - (Occupational)

### Program Description

Two occupational programs which prepare students for national certification and employment with commercial health clubs and other private and public fitness and sports centers. These jobs include working in recreation, health & fitness, sports supervision or allied fields. Students may select from two majors— Aerobics or Personal Trainer.

### Associate in Science Degree

The Associate in Science Degree can be obtained upon completion of a total 60 units, including the 32.5-34.5 unit major for Aerobics or the 29.5-31.5 unit major for Personal Trainer, the general education requirements, and electives.

## Sports Medicine/Fitness Science - Aerobics

### Required Courses

	Units	Recommended Electives
*PE 4.4—Beginning Jazz Dance		ACCT 1 or 180
OR		MGMT 184
*PE 4.7—Beginning Ballet	1.5-2	OCCED 90
*PE 5.4—Beginning Body Conditioning	1-1.5	PE 1-PE 48; any of the following activity courses
PE 20.1—Foundations of PE	3	not used to satisfy the requirements of the
PE 20.2—Care/Prevent. of Athletic Injuries	3	major: Aquatics (2.1, 2.2, 2.4, 2.5, 2.6), Combat-
PE 20.3—Advanced First Aid & CPR	2	ives (3.1, 3.4, 3.7, 3.8), Dance (4.1, 4.2, 4.4, 4.5,
PE 20.6—Intro. to Sports Science	3	4.6, 4.7, 4.9, 4.10, 4.11,4.12,)) Fitness Courses
PE 20.7—Concepts of Fitness	3	(5.0, 5.1, 5.2, 5.3,5.4, 5.5, 5.7, 5.8, 5.10, 5.13, 6.0,
BIOSC 10—Anatomy & Physiology	5	6.5, 73), Individual Sports (7.1, 7.3, 7.4, 7.5, 7.7),
*H ED 2—Health Education	3	Racquet Sports (8.1, 8.2, 8.4, 8.7, 8.8), and Team
NUTRI 10—Nutrition	3	Sports (9.1, 9.2, 9.4, 9.7, 9.8,9.10, 9.11, 9.30, or any
<b>Two courses from the following:</b>	2-3	Intercollegiate Athletics course).
*PE 2.6—Aqua Aerobics		PSYCH 20
*PE 5.1—Beginning Aerobic Exercise		SPEECH 1
*PE 5.3—Step Aerobics		
*PE 6.0—Cardio Kickboxing		
	<hr/>	
	29.5-31.5	

\*May be double counted to meet graduation requirements.

# Physical Education/Athletics

## Sports Medicine/Fitness Science - Personal

	Units	Recommended Electives
*PE 5.7—Beginning Weight Training	1-1.5	ACCT 1 or 180
*PE 5.10—Fitness for Life	1.5-2	MGMT 184
PE 20.1—Foundations of PE	3	OCCED 90
PE 20.2—Care & Prevent./Athletic Injuries	3	PE 1-PE 48; any of the following activity courses not used to satisfy the requirements of the major: Aquatics (2.1, 2.2, 2.4, 2.5, 2.6), Combatives (3.1, 3.4, 3.7, 3.8), Dance (4.1, 4.2, 4.4, 4.5, 4.6, 4.7, 4.9, 4.10, 4.11, 4.12), Fitness Courses (5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.7, 5.8, 5.10, 5.13, 6.0, 6.5, 7.3), Individual Sports (7.1, 7.3, 7.4, 7.5, 7.7), Racquet Sports (8.1, 8.2, 8.4, 8.7, 8.8), and Team Sports (9.1, 9.2, 9.4, 9.7, 9.8, 9.10, 9.11, 9.30, or any Intercollegiate Athletics course).
PE 20.3—Advanced First Aid & CPR	2	PSYCH 20
PE 20.6—Intro. to Sports Science	3	SPEECH 1
PE 20.7—Concepts of Fitness	3	
BIOSC 10—Anatomy & Physiology	5	
*H ED 2—Health Education	3	
NUTRI 10—Nutrition	3	
<b>Two courses from the following:</b>	2-3	
*PE 2.6—Aqua Aerobics		
*PE 5.1—Beginning Aerobic Exercise		
*PE 5.3—Step Aerobics		
*PE 5.4—Beginning Body Conditioning		
*PE 6.0—Cardio Kickboxing		
	29.5-31.5	

\*May be double counted to meet graduation requirements.

### Job-Direct Certificate

For each of the following programs, the required courses must be completed with a grade of "C" or better.

#### Fitness Professional

##### Required Courses

PE 20.3—Advanced First Aid & Emergency Care

PE 20.7 —Concepts of Physical Fitness  
PE 20.6 —Introduction to Sport Science  
NUTRI 10 —Nutrition

PE5.4 —Beginning Body Conditioning  
OR

PE 5.5—Intermediate Body Conditioning

6 additional units from the following list:

##### Units

2  
3  
3  
3  
1  
6  
18

##### Additional Required Units:

Aerobics (5.0, 5.1, 5.2, 5.3, 6.0), Aquatics (2.1, 2.2, 2.4, 2.5, 2.6), Combatives (3.1, 3.4, 3.7, 3.8), Dance (4.1, 4.2, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.14), Individual Fitness (5.7, 5.8, 5.10, 5.13, 6.5, 6.6, 7.3), Individual Sports (7.1, 7.3, 7.4, 7.5, 7.7, 8.1, 8.2, 8.4, 8.7, 8.8, 148A), and Team Sports (9.1, 9.2, 9.7, 9.8, 9.10, 9.11, 9.30).

## Health Education

### H ED 2

3 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.*

### H ED 3

3 Units

#### Women's 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 1.1 through 1.4 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 1.1 1 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. Repeatable 3 times. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

### PE 1.4 1 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. Repeatable 3 times. *One-half hour lecture, one and one-half hour or two and one-half hours activity.*

### PE 1.5\* .5, 1, or 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.*

(\*U.C. transferability pending.)

## Physical Education

Sequence courses (Beginning, Intermediate) may not be taken concurrently; and sequence courses may not be taken out of sequence.

### PE 2.1 1 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 3 times. NOTE: Combined enrollments in PE 2.1 and 2.2 may not exceed 4. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

### PE 2.2 1 or 1.5 Units

#### Intermediate Swimming

*Prerequisite: PE 2.1. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 2.1 and 2.2 may not exceed 4. *One-half hour lecture, one and one-half hours or two and one-half hours activity.*

### PE 2.4 1 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 2.5 1.5 or 2 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.*

# Physical Education

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**PE 2.6** **1 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 3.1** **1 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 3.4** **1 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 3.7** **1 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 3 times. NOTE: Combined enrollments in PE 3.7 & 3.8 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

**PE 3.8** **1 or 1.5 Units**

## **Intermediate Judo**

*Prerequisite: PE 3.7. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 3.7 & 3.8 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

**PE 4.1** **1.5 or 2 Units**

## **Beginning Modern Dance**

*SCC minimum English and math standards.* 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. *One hour lecture, one or two hours activity.*

**PE 4.2** **1.5 or 2 Units**

## **Hip-Hop Dance**

*Course Advisories: SCC minimum English and math standards.* 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. *One hour lecture, one or two hours activity.*

- PE 4.4** **1.5 or 2 Units**  
**Beginning Jazz Dance**  
*SCC minimum English and math standards.* 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 3 times. NOTE: Combined enrollments in PE 4.4 & 4.5 may not exceed 4. *One hour lecture, one or two hours activity.*
- PE 4.5** **1.5 or 2 Units**  
**Intermediate Jazz Dance**  
*Prerequisite: PE 4.4. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 4.4 & 4.5 may not exceed 4. *One hour lecture, one or two hours activity.*
- PE 4.6** **1.5 or 2 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 4.7** **1.5 or 2 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 3 times. NOTE: Combined enrollments in PE 4.7 & 4.8 may not exceed 4. *One hour lecture, one or two hours activity.*
- PE 4.8** **1.5 or 2 Units**  
**Intermediate Ballet**  
*Prerequisite: PE 4.7. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 4.7 & 4.8 may not exceed 4. *One hour lecture, one or two hours activity.*
- PE 4.9** **1 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.*

# Physical Education

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PE 4.10

1.5 or 2 Units

## Beginning Tap Dance

*Course Advisories: SCC minimum English and math standards.* 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 3 times. NOTE: Combined enrollments in PE 4.10 & 4.11 may not exceed 4. *One hour lecture, one or two hours activity.*

PE 4.11

1 or 1.5 Units

## Intermediate Tap Dance

*Prerequisite: PE 4.10. Course Advisories: SCC minimum English and math standards.* 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. Repeatable 3 times. NOTE: Combined enrollments in PE 4.10 & 4.11 may not exceed 4. *One hour lecture, one or two hours activity.*

PE 4.12

1.5 or 2 Units

## Jazz Dance Technique

*Prerequisite: PE 4.4. Course Advisories: SCC minimum English and math standards.* Designed for students who have vocational or avocational interests in dance. Course emphasis is on the skill development and analysis of intermediate-level and advanced-level techniques and patterns. Selected technique syllabi of various dance artists will be presented and studied. Jazz idioms, styles, and the historical and cultural development are included. Participation in the annual dance concert is encouraged. Interval skills exams and written exams serve to evaluate student achievement. Recommended for Theatre Arts majors. Repeatable 3 times. *One hour lecture, one or two hours activity.*

PE 4.14

3 Units

## Dance Production

*Course Advisories: SCC minimum English and math standards.* Designed for advanced 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. *One hour lecture, eight hours lab, one hour weekly by arrangement for 14 weeks.*

PE 5.0

1 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. NOTE: Combined enrollments in PE 5.0, 5.1, 5.2, & 5.3 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 5.1

1 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 3 times. NOTE: Combined enrollments in PE 5.0, 5.1, 5.2, & 5.3 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

# Physical Education

PE 5.2

1 or 1.5 Units

## Intermediate Aerobic Exercise

*Prerequisite: PE 5.1. Course Advisory: SCC minimum English and math standards.* A comprehensive fitness program with a focus on aerobic conditioning via choreographed dance exercise patterns set to music. The physiological effects of exercise on the heart and vascular system are included. Fitness standards are higher than those in the beginning course. Fitness exams, written exams, and course lecture serve to evaluate student achievement. Repeatable 3 times. NOTE: Combined enrollments in PE 5.0, 5.1, 5.2, & 5.3 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 5.3

1 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. NOTE: Combined enrollments in PE 5.0, 5.1, 5.2, & 5.3 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 5.4

1 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 3 times. NOTE: Combined enrollments in PE 5.4 & 5.5 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 5.5

1 or 1.5 Units

## Intermediate Body Conditioning

*Prerequisite: PE 5.4. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 5.4 & 5.5 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 5.7

1 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 3 times. NOTE: Combined enrollments in PE 5.7 & 5.8 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 5.8

1 or 1.5 Units

## Intermediate Weight Training

*Prerequisite: PE 5.7. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 5.7 & 5.8 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 5.10

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.*

# Physical Education

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- PE 5.13** **1 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 6.0** **1 or 1.5 Units**  
**Cardio Kickboxing**  
*Course Advisories: SCC minimum English and math standards.* 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 6.5** **1.5 or 2 Units**  
**Fundamentals of Yoga**  
*Course Advisories: SCC minimum English and math standards.* Development of basic yoga postures, breathing practices, stretching and relaxation techniques as method to improve flexibility, decrease stress and improve physical and mental well-being. Repeatable 3 times. *One hour lecture, one to two hours activity.*
- PE 6.6\*** **1.5 or 2 Units**  
**Intermediate Yoga (formerly PE 48A)**  
*Prerequisite: PE 6.5. Course Advisories: SCC minimum English and math standards.* 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. Repeatable 3 times. NOTE: Combined enrollments in PE 6.5 and PE 6.6 may not exceed 4. *One hour lecture, one to two hours activity.*  
(\*U.C. transferability pending.)
- PE 7.1** **1 or 1.5 Units**  
**Beginning Bowling**  
*Course Advisories: SCC minimum English and math standards.* Covers the fundamental techniques of bowling, terminology, rules, scoring, etiquette, and history. Practice and class competitions are provided to enhance skill development and strategy. Written exams and skills exams serve to evaluate student achievement. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 7.3** **1 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 7.4** **1 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 3 times. NOTE: Combined enrollments in PE 7.4 & 7.5 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 7.5** **1 or 1.5 Units**  
**Intermediate Golf**  
*Prerequisite: PE 7.4. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 7.4 & 7.5 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*
- PE 7.7** **1 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.*
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<b>PE 8.1</b> <b>Beginning Tennis</b> <i>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 3 times. NOTE: Combined enrollments in PE 8.1 &amp; 8.2 may not exceed 4. One-half hour lecture, one and one-half or two and one-half hours activity.</i>	<b>1 or 1.5 Units</b>	<b>PE 8.8</b> <b>Intermediate Badminton</b> <i>Prerequisite: PE 8.7. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 8.7 &amp; 8.8 may not exceed 4. One-half hour lecture, one and one-half or two and one-half hours activity.</i>	<b>1 or 1.5 Units</b>
<b>PE 8.2</b> <b>Intermediate Tennis</b> <i>Prerequisite: PE 8.1. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 8.1 &amp; 8.2 may not exceed 4. One-half hour lecture, one and one-half or two and one-half hours activity.</i>	<b>1 or 1.5 Units</b>	<b>PE 9.1</b> <b>Beginning Basketball</b> <i>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. Repeatable 3 times. NOTE: Combined enrollments in PE 9.1 &amp; 9.2 may not exceed 4. One-half hour lecture, one and one-half or two and one-half hours activity.</i>	<b>1 or 1.5 Units</b>
<b>PE 8.4</b> <b>Beginning Racquetball</b> <i>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.</i>	<b>1 or 1.5 Units</b>	<b>PE 9.2</b> <b>Intermediate Basketball</b> <i>Prerequisite: PE 9.1. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 9.1 &amp; 9.2 may not exceed 4. One-half hour lecture, one and one-half or two and one-half hours activity.</i>	<b>1 or 1.5 Units</b>
<b>PE 8.7</b> <b>Beginning Badminton</b> <i>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 3 times. NOTE: Combined enrollments in PE 8.7 &amp; 8.8 may not exceed 4. One-half hour lecture, one and one-half or two and one-half hours activity.</i>	<b>1 or 1.5 Units</b>	<b>PE 9.4</b> <b>Softball</b> <i>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.</i>	<b>1 or 1.5 Units</b>

# Physical Education

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PE 9.7

1 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 3 times. NOTE: Combined enrollments in PE 9.7 & 9.8 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 9.8

1 or 1.5 Units

## Intermediate Volleyball

*Prerequisite: PE 9.7. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 9.7 & 9.8 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 9.10

1 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 3 times. NOTE: Combined enrollments in PE 9.10 & 9.11 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 9.11

1 or 1.5 Units

## Intermediate Soccer

*Prerequisite: PE 9.10. 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. Repeatable 3 times. NOTE: Combined enrollments in PE 9.10 & 9.11 may not exceed 4. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 9.30

1 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 20.1

3 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.*

PE 20.2

3 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 20.3

2 Units

## Advanced First Aid and Emergency Care

*Course Advisories: SCC minimum English and math standards.* A course designed to prepare individuals who may administer emergency care to the injured and ill. Upon successful completion of the course, students will be knowledgeable in Advanced First Aid and Emergency Care and CPR for infants, children, and adults. Required of Physical Education majors and minors. *Two hours lecture, one hour lab.*

# Physical Education

<b>PE 20.6</b> <b>Introduction to Sports Science</b> <i>Course Advisories: SCC minimum English and math standards. A course covering the basic elements of sport sciences including: kinesiology, motor learning, biomechanics, exercise physiology, sports medicine, sport psychology and training theory. Three hours lecture.</i>	<b>3 Units</b>	<b>PE 20.19A</b> <b>Football Theory and Practice I</b> <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.</i>	<b>2 Units</b>
<b>PE 20.7</b> <b>Concepts of Physical Fitness</b> <i>Course Advisories: SCC minimum English and math standards. A comprehensive fitness course that includes the study of the human organism and its reactions to fitness and physical activity. The course focuses on the physiological adaptations, exercise training/prescriptions, nutrition, ergogenic aids, environmental factors, and the major medical and health conditions. Written exams and measurements of activity serve to evaluate student achievement. Three hours lecture.</i>	<b>3 Units</b>	<b>PE 20.19B</b> <b>Football Theory and Practice II</b> <i>Course Advisory: SCC minimum English and Math standards. Continuation of 20.19A. 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.</i>	<b>2 Units</b>
<b>PE 20.18A</b> <b>Baseball Theory and Practice I</b> <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.</i>	<b>2 Units</b>	<b>PE 20.20A</b> <b>Softball Theory and Practice I</b> <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.</i>	<b>2 Units</b>
<b>PE 20.18B</b> <b>Baseball Theory and Practice II</b> <i>Course Advisories: SCC minimum English and math standards. A continuation of PE 20.18A. 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.</i>	<b>2 Units</b>	<b>PE 20.20B</b> <b>Softball Theory and Practice II</b> <i>Course Advisories: SCC minimum English and math standards. Continuation of PE 20.20A. 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.</i>	<b>2 Units</b>

# Physical Education

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**PE 20.22A** **2 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 20.22B** **2 Units**  
**Volleyball Theory and Practice II**  
*Course Advisory: SCC minimum English standard.* Continuation of PE 20.22A. 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 20.23A** **2.5 Units**  
**Basketball Theory and Analyses I**  
*Course Advisories: SCC minimum English and math standards.* Comprehensive basketball theory course designed for coach and athlete. The course includes the theories and analyses of offensive and defensive strategies, the development of the offensive and defensive game plan as it relates to statistical data, and spontaneous adjustments in offense and defense. Written exams serve to evaluate student achievement. *Two hours lecture, one hour activity.*

**PE 20.23B** **2.5 Units**  
**Basketball Theory and Analyses II**  
*Course Advisories: SCC minimum English and math standards.* Continuation of PE 20.23A. 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. *Two hours lecture, one hour activity.*

**PE 20.24A** **1.5 or 2 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.*

**PE 20.24B** **1.5 or 2 Units**  
**Soccer Theory and Practice II**  
*Course Advisories: SCC minimum English and math standards; PE 20.24A or equivalent soccer experience.* 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. *One hour lecture, and one to two hours activity.*

**PE 55** **2 Units**  
**Sports Medicine—Athletic Training Internship/Practicum**  
*Prerequisites: PE 20.2. Course Advisories: SCC minimum English and math standards.* 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. *One hour lecture, three hours weekly by arrangement.*

**PE 70** **1 or 1.5 Units**  
**Introduction to Qigong**  
*Course Advisories: SCC minimum English and math standards.* A course designed to acquaint the student with the basic 64-movement patterns of Dayan Qigong (pronounced cheegong) - one of the most popular forms of Qigong taught in China today. Students will learn the names and locations of acupuncture 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. *One-half hour lecture, one and one-half or two and one-half hours activity.*

**PE 71** **.5, 1, or 1.5 Units**  
**Back Care and Injury Management**  
*Course Advisories: SCC minimum English and math standards.* A course designed for students with interest in back care or managing a back injury. Individualized and group exercises will focus on functional motor control, balance, coordination, flexibility, developmental movement, individually developed exercises and strength and endurance for students with back injuries. There will be an emphasis on encouraging independence in personal health and teaching lifelong fitness knowledge and skills. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 73

1 or 1.5 Units

## Pilates for Fitness

*Course Advisories: SCC minimum English and math standards.* A fitness course that utilizes Pilates techniques that can increase strength, flexibility and endurance. Pilates exercises can improve posture, alignment coordination and balance. The course is designed to tone muscles without putting stress on the spine. Repeatable 3 times. *One-half hour lecture, one and one-half or two and one-half hours activity.*

PE 83

2 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 83) *One hour lecture, and two to three hours activity.*

PE 300

.5 or 1 Unit

## 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 310

.5, 1, or 1.5 Units

## Peak Performance for Sports

A course designed to enable student-athletes to gain knowledge and training for peak performance. This is a credit/no credit only course. Repeatable 3 times. *One to three hours activity.*

## Special Topics

These courses, number 48, 98 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.

## Intercollegiate Athletics 2 Units

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. *Ten hours lab.*

### Men

ATHL 15 Intercollegiate Baseball (Spring)  
ATHL \*16.1/16.2 Intercollegiate Basketball (F/S)  
ATHL 17 Intercollegiate Football (Fall)

### Women

ATHL 1 Intercollegiate Volleyball (Fall)  
ATHL \*2.1/2.2 Intercollegiate Basketball (F/S)  
ATHL 3 Intercollegiate Softball (Spring)  
ATHL 4 Intercollegiate Soccer (Fall)

### Men and Women

ATHL 10 Intercollegiate Swimming/Diving (S)  
ATHL 20 Intercollegiate Water Polo (Fall)

\*One unit, twelve week course only.

# Physics

Math & Science Division

## 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 with a grade of "C" (2.0) or better in each course, the general education requirements, and electives.

## Required Courses

	Units	
PHYS 6—Physics for Science & Engineering	4	<b>Biological Science:</b> BIOSC 1, 2, 5, 6, 10, 12, 14, 15, 16, 18
PHYS 7—Physics for Science & Engineering	4	
PHYS 8—Physics for Science & Engineering	4	<b>Physical Science:</b> ASTR 10, 20, 30, 40 CHEM 1, 2, 3, 4, 5, 10, 11 GEOG 1 GEOL 1, 2, 3, 4, 5 METER 10 PHYS 12
MATH 20—Analytic Geometry and Calculus	4	
MATH 21—Analytic Geometry and Calculus	4	
MATH 23—Differential Equations	3	
Biological Science course selected from the following list	3-5	
Physical Science course selected from the following list	3-5	
	<u>3-5</u>	
	29-33	

### PHYS 2

4 Units

#### General Physics (Non-Calculus)

*Prerequisite: MATH 51 or MATH 4 with a grade of "C" or better. Course Advisory: SCC minimum English standard.* PHYS 2 & 4, 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. (CAN PHYS 2) (PHYS 2 & 4 = CAN PHYS SEQ A). *Four hours lecture/discussion, three hours lab.*

### PHYS 4

4 Units

#### General Physics (Non-Calculus)

*Prerequisite: PHYS 2 with a grade of "C" or better. Course Advisory: SCC minimum English standard.* PHYS 2 & 4, 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. (CAN PHYS 4) (PHYS 2 & 4 = CAN PHYS SEQ A). *Four hours lecture/discussion, three hours lab.*

The PHYS 6, 7, 8 sequence is a three-semester offering in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering.

## **PHYS 6** **4 Units**

### **Physics for Science and Engineering**

*Prerequisite:* MATH 21 (may be taken concurrently); High School Physics or PHYS 2 with a grade of "C" or better.

*Course Advisory:* SCC minimum English standard. 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. (CAN PHYS 8). *Four hours lecture/discussion, three hours lab.*

## **PHYS 7** **4 Units**

### **Physics for Science and Engineering**

*Prerequisites:* A grade of "C" or better in both PHYS 6 and MATH 21. *Course Advisory:* SCC minimum English standard.

A continuation of PHYS 6, 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. (CAN PHYS 12). *Four hours lecture/discussion, three hours lab.*

## **PHYS 8** **4 Units**

### **Physics for Science and Engineering**

*Prerequisites:* A grade of "C" or better in both PHYS 6 and MATH 21. *Course Advisory:* SCC minimum English standard.

A continuation of PHYS 6 and 7, 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. *Four hours lecture/discussion, three hours lab.*

## **PHYS 10** **3 Units**

### **Descriptive Physics**

*Course Advisories:* SCC minimum English standard; MATH 102 or MATH 108. 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. *Three hours lecture.*

# Political Science

Humanities Division

## 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 Arts 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.

## Required Courses

	Units
POLSC 1—American Government	
OR	
POLSC 1H - Honors American Government	3
<b>Select 15 units from the following:</b>	<b>15</b>
IR 1—Global Interdependence (3 units)	
POLSC 2—Intro. to Comparative Political Systems (3 units)	
POLSC 3—Intro. to International Politics (3 units)	
POLSC 5—Constitutional Rights/Multicultural Society (3 units)	
POLSC 6—Basic Concepts in Political Thought (3 units)	
POLSC 16—Law and Society (3 units)	
POLSC 19—Human Rights & Sexual Orientation (3 units)	
POLSC 48—Special Topics (3 units)	
POLSC 49—Political Science Honors (1-3 units)	
POLSC 50—Student Leadership (1 unit)	
	18

**POLSC 1** **3 Units**  
**Introduction to American Government and Politics**  
*Course Advisory: ENGL 1 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. (CAN GOVT 2). *Three hours lecture.*

**POLSC 1H** **3 Units**  
**Honors Introduction to American Government and Politics**  
*Prerequisites: Eligibility for Honors Program. Completion of English 1 with a grade of "B" or higher. Course Advisory: SCC minimum math standard.* An honors course introducing 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. This transferrable course meets the American institutions requirement. *Three hours lecture.*

**POLSC 2** **3 Units**  
**Introduction to Comparative Government**  
*Course Advisories: POLSC 1; ENGL 1; 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.*

**POLSC 3** **3 Units**  
**Introduction to International Politics**  
*Course Advisories: POLSC 1; ENGL 1; SCC minimum math standard.* Introductory study of the international system focusing on such concepts as the nation state and nationalism, ethnicity, power, war and military strategy, and approaches to international peace and stability. *Three hours lecture.*

**POLSC 5****3 Units****Constitutional Rights in a Multicultural Society**

*Course Advisories: POLSC 1; ENGL 1; 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.*

**POLSC 6****3 Units****Basic Concepts in Political Thought**

*Course Advisory: ENGL 1 or ENGL 62.* 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.*

**POLSC 16****3 Units****Law and Society**

*Course Advisories: POLSC 1; ENGL 1; 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.*

**POLSC 19****3 Units****Human Rights and Sexual Orientation**

*Course Advisory: ENGL 1.* 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.*

**POLSC 49****1-3 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.*

**POLSC 50****1 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.*

**Special Topics**

These courses, numbered 48 or 98, 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

Fine & Applied Arts/Behavioral Sciences Division

## 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.

## Required Courses

	Units		Units
PSYCH 1 & 2—Intro. to Psych (3 & 3 units)	6	PSYCH 65—Intro. to Psych of Aging	
PSYCH 4—Research Methods in Behav Science		OR	
OR		SOCSC 22—Ethnic, Racial, and Minority Group	
PSYCH 30—Intro to Social Psych.	3	Relations in Harmony and Conflict	3
PSYCH 20—Personal & Social Behavior		One other course from the above list	3
OR			18
PSYCH 5—Abnormal Psychology			
OR		<b>Recommended Electives:</b>	
PSYCH 34—Human Sexual Behavior	3	ANTH 2	
PSYCH 10—Psych of Women		BIOSC 5, 6, 10	
OR		MATH 11	
PSYCH 24—Psych of African-Amer.		PSYCH 40, 49	
OR		SOCIO 1	
		SOCSC 23	

**PSYCH 1** **3 Units**  
**Introduction to Psychology: Individual & Social Processes**  
*Course Advisories: SCC minimum English and math standards.* Introduction to psychology as the scientific study of human behavior. Major topics include history of field, scientific method, sensation and perception, development, learning, cognitive skills, motivation, emotion, personality, tests and measurements, behavior disorders and treatment, and social psychology. *Three hours lecture.*

**PSYCH 1H** **3 Units**  
**Honors Introduction to Psychology -Individual and Social Processes**  
*Prerequisites: Eligibility for Honors Program. Completion of English I with a grade of "B" or higher.* An honors course in the introduction to psychology as the scientific study of human behavior. Major topics include history of field, scientific method, sensation, and perception, development, learning, cognitive skills, motivation, emotion, personality, tests and measurements, behavior disorders and treatment, and social psychology. *Three hours lecture.*

**PSYCH 2** **3 Units**  
**Introduction to Psychology: Biological Bases of Behavior**  
*Course Advisories: SCC minimum English and 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. (CAN PSY 2). *Three hours lecture.*

**PSYCH 4** **3 Units**  
**Research Methods in Behavioral Science**  
*Prerequisites: PSYCH 1 or PSYCH 2 or SOCIO 1. Course Advisories: Eligibility for ENGL 1; MATH 11.* 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.*

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<b>PSYCH 5</b>	<b>3 Units</b>	<b>PSYCH 34</b>	<b>3 Units</b>
<b>Abnormal Psychology</b> <i>Prerequisite: PSYCH 1. Course Advisories: ENGL 62, eligibility for ENGL 1, and SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>		<b>Human Sexual Behavior</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>	
<b>PSYCH 10</b>	<b>3 Units</b>	<b>PSYCH 40</b>	<b>3 Units</b>
<b>Psychology of Women</b> <i>Course Advisory: PSYCH 1.</i> 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. <i>Three hours lecture.</i>		<b>Drugs, Society and Behavior</b> <i>Course Advisories: Eligibility for ENGL 1 and SCC minimum math standard.</i> 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. <i>Three hours lecture.</i>	
<b>PSYCH 20</b>	<b>3 Units</b>	<b>PSYCH 49</b>	<b>1-3 Units</b>
<b>Personal and Social Behavior</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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. <i>Three hours lecture.</i>		<b>Psychology Honors</b> <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 psychology. May be repeated to a maximum of 6 units, including initial enrollment. <i>Three to nine hours weekly by arrangement.</i>	
<b>PSYCH 24</b>	<b>3 Units</b>	<b>PSYCH 65</b>	<b>3 Units</b>
<b>Psychology of African Americans</b> <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i>		<b>Introduction to the Psychology of Aging</b> <i>Course Advisories: SCC minimum English and math standards.</i> Introductory course on the psychological aspects of aging covering the physical, emotional, sexual and intellectual processes that occur as an individual matures. The course is designed for those people who work with older adults, for aging individuals or those who must relate to aging adults and/or parents. <i>Three hours lecture.</i>	
<b>PSYCH 30</b>	<b>3 Units</b>	<b>Special Topics</b>	
<b>Introduction to Social Psychology</b> <i>Course Advisories: PSYCH 1; eligibility for ENGL 1; SCC minimum math standard.</i> An attempt to understand and explain how the 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 social and physical structures people have created. A review of the various perspectives unique to social psychologists and a variety of classical research studies will also be studied. <i>Three hours lecture.</i>		These courses, number 48 or 98 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.	

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# Real Estate

Business & Computer Science Division

## 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.

## Required Courses

	Units	
R E 164—Principles of Real Estate (Not required for those holding Real Estate Sales License.)	3	<b>Recommended Electives:</b> ACCT 1 BUS 18 RE 176, 177
R E 171—Real Estate Economics OR ECON 1—Principles of Economics OR ECON 2—Principles of Economics	3	
R E 172—Real Estate Practice	3	
R E 173—Legal Aspects of Real Estate	3	
R E 174—Real Estate Finance	3	
R E 175—Principles of Appraisal	3	
Electives selected from the list of Recommended Electives	<u>6</u>	
	24	

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### *Pre-Licensing Course*

**RE 164**

**3 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 172**

**3 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.*

### *Post-Licensing Courses*

**RE 171**

**3 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 173**

**3 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.*

**RE 174** **3 Units**

**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.*

**RE 175** **3 Units**

**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.*

**RE 176** **3 Units**

**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.*

**RE 177** **3 Units**

**Income Property Appraisal and Analysis**

*Prerequisite: RE 175.* Advanced appraisal course covering the principles, procedures and techniques needed to appraise commercial property, including large apartment buildings. The course content will include review of basic appraisal principles, income and expense estimating, operating expense ratios, direct capitalization, cash flow estimates, measures of cash flow and discounted cash flow analysis. The use of financial calculator will be required. *Three hours lecture.*

# Science, General

Math & Science Division

## Program Description

This program is designed to provide students with a basic science background, preparing them to move into a curriculum at a four-year institution leading to a degree in such fields as chemistry, biology, physics, geology, or health sciences. This program is a path for immediate entry into science-based technology careers.

## Associate in Arts Degree

The Associate in Arts Degree can be obtained by completing a total of 60 units, including a minimum of 18 units in the major with a grade of "C" (2.0) or better in each course, 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.

## Required Courses

### Biological Science

BIOSC 1\*, 2\*, 5\*, 6\*, 10\*, 12, 12L\*, 14\*, 15\*, 16, 18, 19\*  
ANTH 1

### Physical Science

ASTR 10  
CHEM 1\*, 2\*, 3\*, 4\*, 5\*, 10\*, 11\*  
GEOG 1  
GEOL 1, 2\*, 3, 4\*, 5  
METER 10  
PHYS 12\*  
PHYS 2\*, 4\*, 6\*, 7\*, 8\*, 10

\*Laboratory Class

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## Anthropology

### ANTH 1

3 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. (CAN ANTH 2). *Three hours lecture.*

### ANTH 2

3 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. (CAN ANTH 4). *Three hours lecture.*

### ANTH 7

3 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. (CAN ANTH 6). *Three hours lecture.*

### ANTH 49

2 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 10** 3 Units

### General Astronomy

*Course Advisories: Eligibility for ENGL 1 ; 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. *Three hours lecture.*

**ASTR 20\*** 1 Unit

### Astronomy Laboratory

*Prerequisites: ASTR 10, 30, or 40 (they may be taken concurrently). Course Advisories: SCC minimum English and math standards.* 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. *Three hours lab.*

(\*U.C. transferability pending.)

**ASTR 30\*** 3 Units

### The Solar System

*Course Advisories: Eligibility for ENGL 1 ; 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. *Three hours lecture.*

(\*U.C. transferability pending.)

**ASTR 40\*** 3 Units

### Stars, Galaxies, and Cosmology

*Course Advisories: Eligibility for ENGL 1 ; 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. *Three hours lecture.*

(\*U.C. transferability pending.)

## Geography

**GEOG 1** 3 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. Includes a one-day field trip. (CAN GEOG 2). *Three hours lecture.*

**GEOG 2** 3 Units

### Cultural Geography

*Course Advisory: Eligibility for ENGL 1.* 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. (CAN GEOG 4). *Three hours lecture.*

**GEOG 4** 3 Units

### World Geography

*Course Advisory: Eligibility for ENGL 1.* 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. *Three hours lecture.*

## Geology

**GEOL 1** 3 Units

### Physical Geology

*Course Advisories: Eligibility for ENGL 1 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, and 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. (GEOL 1 & 2 = CAN GEOL 2). *Three hours lecture, plus field trips by arrangement.*

**GEOL 2** 1 Unit

### Physical Geology Laboratory

*Prerequisites: GEOL 1 or 5 (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. (GEOL 1 & 2 = CAN GEOL 2). *Three hours lab and discussion, plus field trips by arrangement.*

# Science, General

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## GEOL 3

3 Units

### Earth and Life Through Time

*Course Advisories: Eligibility for ENGL 1, GEOL 1 or GEOL 5, and SCC minimum math standard.* The study of the geologic history of the earth including stratigraphy, the evolution of the earth and its crust, organic evolution of life, fossils in the interpretation of the history of life, and the history of life from its beginning to historic times. Field trips will be taken to areas of geologic interest. (GEOL 3 & 4 = CAN GEOL 4). *Three hours lecture, plus field trips by arrangement.*

## GEOL 4

1 Unit

### Earth and Life Through Time Laboratory

*Prerequisites: GEOL 3 (may be taken concurrently). Course Advisories: GEOL 1 and GEOL 2, SCC minimum English and math standards.* Practical application of the principles of historic geology including interpreting geological maps, fossil identification, and stratigraphy. Field trips to areas of geologic interest will be taken. (GEOL 3 & 4 = CAN GEOL 4). *Three hours lab and discussion, plus field trips by arrangement.*

## GEOL 5

3 Units

### Geology of California

*Course Advisories: Eligibility for ENGL 1 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. *Three hours lecture.*

## GEOL 10

3 Units

### Introduction To Geographic Information Systems

*Course Advisories: SCC minimum English and math standards; 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. *Two hours lecture, three hours lab.*

## GEOL 49H

1-3 Units

### Honors Geology

*Prerequisites: Eligibility for the Honors program; GEOL 1 and 2 (either may be taken concurrently). Course Advisory: Eligibility for ENGL 1.* 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. *Three to nine hours weekly by arrangement.*

## Meteorology

### METER 10

3 Units

### Elements of Meteorology

*Course Advisories: Eligibility for ENGL 1; 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

### PHYSC 12

4 Units

### Introduction to the Principles of Physical Science

*Course Advisories: Eligibility for ENGL 1; SCC minimum math standard.* An introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, chemistry, astronomy, and the geo-sciences. This is a general education course in the physical science area for non-science majors that satisfies the physical science requirement for most universities and colleges. *Three hours lecture, three hours lab.*

### Special Topics

These courses, numbered 48 or 98 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.

## 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 the six subject areas shown below.

## Required Courses

	Units		Units
ANTH 1—Physical Anthro		PSYCH 1—Intro. to Psych: Individual & Social Processes	
OR		OR	
ANTH 2—Cultural Anthro.	3	SOCIO 1—Sociology	
ECON 1—Principles of Economics	3	OR	
GEOG 1—Physical Geography		Any Social Science Ethnic Studies course that is not used to complete the above.	3
OR			18
GEOG 2—Cultural Geography			
OR			
GEOG 4—World Geography	3		
Any History OR American Studies Course	3		
POLSC 1—American Politics			
OR			
POLSC 6—Basic Concepts in Political Thinking			
OR			
POLSC 16—Law and Society	3		

## Social Science

**SOCSC 22** **3 Units**

### Ethnic, Racial, and Minority Group Relations in Harmony and Conflict

*Course Advisory: SCC minimum English standard.*  
Examination of the historical, economic, psychological, and sociological aspects of majority-minority group relationships (ethnic, racial and gender) in the United States and selected cross-cultural situations. *Three hours lecture.*

**SOCSC 23** **3 Units**

### The African-American Family

*Course Advisories: Eligibility for ENGL 1 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.*

**SOCSC 25** **3 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.*

**SOCSC 26** **3 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.*

**SOCSC 27** **3 Units**

### Native American Experience

*Course Advisories: ENGL 1; 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.*

## Social Sciences

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**SOCSOC 28**

**3 Units**

### **Introduction to African Studies**

*Course Advisories: Eligibility for ENGL 1 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.*

interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

## **Sociology**

**SOCIO 1**

**3 Units**

### **Sociology**

*Course Advisory: SCC minimum English standard.* 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. (CAN SOC 2). *Three hours lecture.*

**SOCSOC 30**

**3 Units**

### **Peace, Non Violence and Conflict Resolution**

*Course Advisories: Eligibility for ENGL 1.* 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.*

**SOCIO 2**

**3 Units**

### **Social Issues & Problems**

*Course Advisories: SOCIO 1, SCC minimum English standard.* 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. (CAN SOC 4). *Three hours lecture.*

**SOCSOC 49**

**1-3 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. May be repeated to a maximum of 6 units, including initial enrollment. *Three to nine hours weekly by arrangement.*

**SOCIO 23**

**3 Units**

### **Sociology of African Americans**

*Course Advisories: SOCIO 1 or SOCSOC 22; Eligibility for ENGL 1.* Introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems. *Three hours lecture.*

**SOCSOC 51**

**3 Units**

### **Mediation**

*Course Advisories: Eligibility for ENGL 1.* 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.*

**SOCIO 30**

**3 Units**

### **Social Psychology**

See Psychology 30.

**SOCIO 40**

**3 Units**

### **Sociology of the Family**

*Course Advisories: SOCIO 1 and ENGL 370.* Comparative cultural view of the family, the history of the family and its present role in our society with special emphasis on kinship relations, sex roles, ethnic variations of the family and alternative family styles. *Three hours lecture.*

**SOCIO 49**

**1-3 Units**

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

### **Special Topics**

These courses, numbered 48 or 98 depending upon their transferability, are courses of contemporary

## 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.

## Required Courses

Acting Emphasis	Units	Technical Emphasis	Units
THEA 3—Stagecraft	3	THEA 1—Principles and Theory of Acting	3
THEA 4—Stage movement	2	THEA 3—Stagecraft	3
THEA 10—History of Theatre 1	3	THEA 10—History of Theatre 1	3
THEA 11—History of Theatre 2	3	THEA 11—History of Theatre 2	3
<b>Seven units (7) in the following:</b>			
THEA 33—Actor Training 4 (7 units)			3
OR		THEA 20—Lighting	3
THEA 1 (3 units) and THEA 2 (3 units),		THEA 47—Technical Production	<u>3</u>
			18
AND		<b>Recommended Elective:</b>	
1 unit in any of the following:		THEA 13	
THEA 5, MUSIC 22, THEA 47	<u>7</u>		
	18		

<p><b>THEA 1</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Principles and Theory of Acting</b>  <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. (CAN DRAM 8). <i>Three hours lecture.</i></p>	<p><b>THEA 4</b> <span style="float: right;"><b>2 Units</b></span></p> <p><b>Stage Movement</b>  <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. <i>Four hours activity.</i></p>
<p><b>THEA 2</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Principles and Theory of Acting</b>  <i>Prerequisite: THEA 1. Course Advisory: Eligibility for ENGL 1.</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></p>	<p><b>THEA 5</b> <span style="float: right;"><b>1-3 Units</b></span></p> <p><b>Applied Drama</b>  <i>Prerequisite: Audition for actors only. Course Advisory: SCC minimum English standard.</i> Study, rehearsal and public performance of dramatic and comedic works for the stage which includes: classical plays, contemporary dramas and comedies, revues, poetry presentations, and one-acts. Students participate as actors, ensemble members in certain works, and/or accompanists. This is an open-entry, open-exit course. Repeatable to a maximum of 12 units, including initial enrollment. <i>One hour lecture, two to eight hours weekly by arrangement.</i></p>
<p><b>THEA 3</b> <span style="float: right;"><b>3 Units</b></span></p> <p><b>Stagecraft</b>  <i>Course Advisory: SCC minimum English standard.</i> Presents the theory and practical application of procedures employed in technical theater, including safe use of stage equipment, construction and handling of scenery and properties, painting techniques and basic lighting. (CAN DRAM 12). <i>Two hours lecture, three hours lab.</i></p>	

# Theatre Arts

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<b>THEA 6</b> <b>Introduction to Theatre: Understanding Drama</b> <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>	<b>3 Units</b>	<b>THEA 11</b> <b>History of Theatre 2</b> <i>Course Advisories: Eligibility for ENGL 1 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. <i>Three hours lecture.</i>	<b>3 Units</b>
<b>THEA 7</b> <b>Directing</b> <i>Prerequisites: THEA 2. Course Advisory: Eligibility for ENGL 1.</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>	<b>3 Units</b>	<b>THEA 13</b> <b>Diversity in American Theatre: A Contemporary Focus</b> <i>Course Advisories: Eligibility for ENGL 1 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>	<b>3 Units</b>
<b>THEA 8</b> <b>Stage Makeup</b> <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. (CAN DRAM 14). <i>One hour lecture, three hours lab.</i>	<b>2 Units</b>	<b>THEA 20</b> <b>Lighting</b> <i>Course Advisories: SCC minimum English and math standards.</i> Introductory course to the technical aspects of stage lighting. Instruction covers lighting equipment, color, electricity and the reading of lighting plots. Written exams, quizzes and a lighting project are required. (CAN DRAM 10). <i>Two hours lecture, three hours lab.</i>	<b>3 Units</b>
<b>THEA 9</b> <b>Stage Management</b> <i>Course Advisories: SCC minimum English and math standards.</i> Duties, skills required, and the function of stage management are presented. Students will study the rehearsal process and environment, basic personnel management, union contracts, cueing, development of a prompt book, and performance systemics. A variety of written assignments related to stage management reporting and the development of a prompt book are required. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>THEA 21</b> <b>Introduction to Theatre Design</b> <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. <i>Two hours lecture, two hours lab.</i>	<b>3 Units</b>
<b>THEA 10</b> <b>History of Theatre 1</b> <i>Course Advisories: SCC minimum English and 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. <i>Three hours lecture.</i>	<b>3 Units</b>	<b>THEA 22</b> <b>Theatrical Costume Practicum</b> <i>Course Advisories: SCC minimum English and math standards.</i> 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, Milliner, 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. <i>Three hours lab, zero to six hours weekly by arrangement.</i>	<b>1-3 Units</b>

<p><b>THEA 30</b></p> <p><b>Actor Training 1</b>  <i>Corequisite: THEA 47. Prerequisite: Audition to be conducted by department faculty. Course Advisory: SCC minimum English standard.</i> An intensive acting study course which concentrates on the body as an instrument of communication, the acting process, sensory experience, spontaneity, objectives, vocal relaxation and centering, singing techniques for the actor, musical theatre score reading and musical theatre ballet. Students will begin to learn the integration of technical theatre in the performance. This course is offered only during the fall semester. Check the class schedule for specific information regarding audition dates and times. <i>Three hours lecture, thirteen hours activity.</i></p>	<p><b>7 Units</b></p>	<p><b>THEA 47</b></p> <p><b>Technical Production</b>  <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 to a maximum of 12 units, including initial enrollment. <i>Three hours lab, three to six hours weekly by arrangement.</i></p>	<p><b>1-3 Units</b></p>
<p><b>THEA 31</b></p> <p><b>Actor Training 2</b>  <i>Prerequisite: THEA 30 with a grade of "C" or better. Corequisite: THEA 47.</i> An intensive acting study course which concentrates on the actor in relation to acting text, text breakdown and scoring, beats, textural 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, including scenery construction techniques for the novice. <i>Three hours lecture, thirteen hours activity.</i></p>	<p><b>7 Units</b></p>	<p><b>THEA 49</b></p> <p><b>Theatre Arts Honors</b>  <i>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.</i> 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. <i>Three to nine hours weekly by arrangement.</i></p>	<p><b>1-3 Units</b></p>
<p><b>THEA 32</b></p> <p><b>Actor Training 3</b>  <i>Prerequisite: THEA 31 with a grade of "C" or better. Corequisite: THEA 47.</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></p>	<p><b>7 Units</b></p>	<p><b>THEA 50</b></p> <p><b>Performance for the Camera</b>  <i>Course Advisory: SCC minimum English standard.</i> 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. <i>Three hours lecture.</i></p>	<p><b>3 Units</b></p>
<p><b>THEA 33</b></p> <p><b>Actor Training 4</b>  <i>Prerequisite: THEA 32 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></p>	<p><b>7 Units</b></p>	<p><b>THEA 105</b></p> <p><b>Beginning Applied Drama</b>  <i>Course Advisories: SCC minimum English and math standards.</i> The study and rehearsal of dramatic and comedic works for the stage, including classical plays, contemporary dramas and comedies, revues, and one-acts, with a special focus on the preparation of the beginning actor. Repeatable to a maximum of 12 units. <i>One hour lecture, two to eight hours weekly by arrangement.</i></p>	<p><b>1-3 Units</b></p>
		<p><b>Special Topics</b>            These courses, numbered 48, 98, 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.</p>	

# Water and Wastewater Technology

Career Technical Education Division

## 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 Degree

A Certificate of Achievement can be obtained upon completion of the 28 1/2-unit major. The Associate in Science Degree can be obtained upon completion of 60 units, including the major, the general education requirements, and electives.

## Required Courses

	Units
WATER 100—Intro. to WW Treatment	4
WATER 102—Sanitary Chemistry I	4
WATER 104—Intro. to Water Supply & Treatment	3
WATER 105—Wastewater Treatment	3
WATER 106—Instrumentation & Controls	3
WATER 107—Math of WW Treatment	4
BIOSC 14—Principles of Microbiology	4
CHEM 160—Introductory Chemistry	<u>3.5</u>
	28.5

### Recommended Electives:

WATER 120, 121  
OCCED 90, 91

### WATER 100 4 Units

#### Introduction to Wastewater Treatment

*Course Advisory: SCC minimum English standard.* 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.*

### WATER 102 4 Units

#### Sanitary Chemistry

*Prerequisite: CHEM 160. 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.*

### WATER 104 3 Units

#### Introduction to Water Supply and Treatment

*Course Advisory: SCC minimum English standard.* Study of the elementary engineering aspects of design, operation, process control and maintenance of water treatment plants and facilities. *Two and one-half hours lecture, one and one-half hours lab.*

### WATER 105 3 Units

#### Wastewater Treatment

*Prerequisite: WATER 100. Course Advisory: SCC minimum English standard.* Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities. *Two and one-half hours lecture, one and one-half hours lab.*

## **WATER 106**

**3 Units**

### **Instrumentation and Control**

*Course Advisory: SCC minimum English standard.*

Study of pneumatic, mechanical and electronic control systems and components. Includes a basic description and explanation of the operation of instruments and controls for water and wastewater plants. Typical performance characteristics, accuracy, and applications of instruments are studied. *Three hours lecture.*

## **WATER 107**

**4 Units**

### **Mathematics of Water and Wastewater Treatment**

*Course Advisories: SCC minimum English and math standards.* Study of hydraulics and calculations used in the design, operation, process control and the maintenance of treatment plants and facilities. *Four hours lecture.*

## **WATER 120**

**2 Units**

### **Distribution Systems Maintenance**

*Course Advisory: SCC minimum English standard.*

Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems. *Two hours lecture.*

## **WATER 121**

**2 Units**

### **Collection Systems Maintenance**

*Course Advisory: SCC minimum English standard.* Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems. *Two hours lecture.*

### **Special Topics**

These courses, numbered 148, are courses of specialized interest centered on changing knowledge and important issues in the field. Announcements of Special Topics courses appear in the Schedule of Classes.

# Welding

Career Technical Education Division

## 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.

Certification of students as "Code Welders" is available at a nominal cost to the student.

### Required Courses

	Units	
DRAFT 79—Blueprint Reading	2	<b>Recommended Electives:</b> ECTRN 101 ENGL 51 IT 160 OCCED 90, 91 WELD 174, 175, 176, 177
IT 140—Industrial Materials	3	
Electives selected from the list below	<u>18</u>	
	23	
<b>Select 18 units from the following</b> (all 3-unit courses):		
WELD 120—Plate Welder (Basic)		
WELD 121—Plate Welder (Advanced)		
WELD 122—Pipe Welding (Basic)		
WELD 123—Pipe Welding (Advanced)		
WELD 124—Tungsten Inert Gas (Heliarc) Welding		
WELD 125—Metal Inert Gas/Arc (M.I.G.) Welding		
WELD 126—Ornamental Iron Welding		

## Welding Technician

### Program Description

Designed to prepare the graduate for employment as a welder or a welder helper in the metal trades. The major types of welding covered are shielded arc, acetylene gas welding, metal inert gas, tungsten inert gas, automatic and semi-automatic welding machines.

### Certificate of Achievement and Associate in Science Degree

A Certificate of Achievement can be obtained upon completion of the 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.

Certification of students as "Code Welders" is available at a nominal cost to the student.

### Required Courses

	Units	
WELD 100—Welding Technology	10	
WELD 101—Welding Technology	10	
WELD 102—Welding Technology	10	
WELD 103—Welding Technology	10	
DRAFT 79—Blueprint Reading	2	
IT 140—Industrial Materials	3	
IT 150—Industrial Processes	3	
	48	
		<b>Recommended Electives:</b>
		ECTRN 101, 102
		IT 160
		OCCED 90, 91
		WELD 174, 175, 176, 177

### Job-Direct Certificate Requirements

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

#### Welding Equipment Operator

	Units
WELD 174—Weld Equipment Operation	2
WELD 175—Welding Fabrication	2
WELD 176—Shielded Arc Certification	2
WELD 177—Wire Welding Certification	2
*OCCED 90—Occupational Work Experience	1
	9

\*Students will be required to complete 80 hours of cooperative supervised work experience to receive credit.

# Welding

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<b>WELD 100</b> <b>Welding Technology</b> <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>	<b>10 Units</b>	<b>WELD 120</b> <b>Plate Welder (Basic)</b> <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>	<b>3 Units</b>
<b>WELD 101</b> <b>Welding Technology</b> <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>	<b>10 Units</b>	<b>WELD 121</b> <b>Plate Code Welder (Advanced)</b> <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>	<b>3 Units</b>
<b>WELD 102</b> <b>Welding Technology</b> <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>	<b>10 Units</b>	<b>WELD 122</b> <b>Pipe Welding (Basic)</b> <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>	<b>3 Units</b>
<b>WELD 103</b> <b>Welding Technology</b> <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>	<b>10 Units</b>	<b>WELD 123</b> <b>Pipe Welding (Advanced)</b> <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>	<b>3 Units</b>
<b>WELD 112</b> <b>Carpentry Apprentice Welding</b> <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 (one week course).</i>	<b>1 Unit</b>		

<b>WELD 124</b> <b>Gas Tungsten Arc Welding</b> <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to weld aluminum steel and stainless steel with the Gas Tungsten Arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. Two hours lecture, three hours lab.</i>	<b>3 Units</b>	<b>WELD 176</b> <b>Shielded Arc Certification</b> <i>Course Advisories: SCC minimum English and math standards. 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. Four hours lecture, sixteen hours lab (4 week course).</i>	<b>2 Units</b>
<b>WELD 125</b> <b>Gas Metal Arc Welding</b> <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to weld steel and aluminum with the gas metal arc process. Includes the manipulative skills required to weld with the flux cored arc process. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. Two hours lecture, three hours lab.</i>	<b>3 Units</b>	<b>WELD 177</b> <b>Wire Welding Certification</b> <i>Course Advisories: SCC minimum English and math standards. 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. Four hours lecture, sixteen hours lab (4 week course).</i>	<b>2 Units</b>
<b>WELD 126</b> <b>Ornamental Iron Welding</b> <i>Course Advisories: Successful completion of IT 110 or prior welding experience; SCC minimum English standard. Presents the theory, procedures, and manipulative skills required to fabricate and weld ornamental iron projects. Manipulative and written tests are used to give students practice and to evaluate performance in applying techniques learned. Repeatable 2 times. Two hours lecture, three hours lab.</i>	<b>3 Units</b>	<b>WELD 500</b> <b>Special Welding Problems</b> <i>Prerequisites: Permission of the instructor to verify room for special problems students. Designed to assist with vocational placement for advanced welding students who have sufficient background in welding fundamentals to pursue more independent studying in the area of their choice. The student works by arrangement with the instructor on an outlined program of study to achieve independent objectives. This is an open entry/open exit course. Hours by arrangement as required.</i>	<b>Non-Credit Only</b>
<b>WELD 174</b> <b>Welding Equipment Operation</b> <i>Course Advisories: SCC minimum English and math standards. Designed to acquaint students with the equipment and techniques used to safely perform welding operations. Students will learn to perform basic welding methods. Four hours lecture, sixteen hours lab (4 week course).</i>	<b>2 Units</b>	<b>Special Topics</b> These courses, numbered 148, 248, or 548 depending upon their transferability, are courses of contemporary interest centered on changing knowledge and important issues in the field. Specific information will vary with each course.	
<b>WELD 175</b> <b>Welding Fabrication</b> <i>Course Advisories: SCC minimum English and math standards. Designed to increase student knowledge and tactile skills with welding processes and related metal working equipment. Four hours lecture, sixteen hours lab (4 week course).</i>	<b>2 Units</b>		



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- Shatzer, Charles R.**, *Associate Vice-President, Workforce & Community Development*. A.A., Solano Community College; B.S., Southern Illinois Univ., Carbondale; M.B.A., Southern Illinois Univ., Edwardsville.
- Silva, Belinda**, *Career Technical Division*.
- Snow, Charlene**, *Math/Science Division*. B.S., Allegheny College; M.S., Western Washington University.
- Spillner, Charles**, *Math/Science Division*. B.S., University of California, Davis; Ph.D., University of Utah.
- Stein, Joshua**, *Humanities Division*. B.A., M.A., University of California, Riverside.
- Stever, Sharyn**, *Humanities Division*. B.A., M.A., California State University, Sacramento; M.F.A., Arizona State University.
- Stilwell, Paul**, *Career Technical Education Division*.
- Stover, Scott**, *Physical Education/Athletics Division*. B.A., Chapman University; M.S.S., United States Sports Academy.
- Sytsma, Robin**, *Fine & Applied Arts/Behavioral Sciences Division*. B.S., San Diego State University; M.S., University of New Haven, West Haven, Connecticut.
- Taylor, Mark**, *Business & Computer Science Division*. B.S., San Jose State Univ.; M.A., California State Univ., Chico.
- Thomas, Gene**, *Math/Science Division*. B.S., Pennsylvania State University; M.S., Ph.D., University of Wisconsin.
- Tolliver, Ella**, *Counseling/DSP*. B.A., Sonoma State Univ.; M.S., California State University, Hayward; Ph.D., Walden University, Minneapolis.
- Tsai, Elizabeth H.**, *Learning Resources*. B.S., M.L.S., Texas Women's University; M.A., University of Texas, San Antonio.
- Twitchell, Keith I.**, *Career Technical Education Division*. A.A., Diablo Valley College; B.A., California State Univ., Sacramento; M.P.A., Golden Gate Univ.
- Urrutia, John**, *Dean, Business & Computer Science Division*. B.S., University of Nevada, Reno; M.S., National University.
- Wallace, Leona M.**, *Counseling/DSP*. B.A., Univ. of California, Berkeley; M.A., Univ. of California, San Francisco.
- Wanek, Karen**, *Health Occupations Division*. B.S.N., University of Colorado; M.S., California State University, Dominguez Hills.
- Warren, Thomas H.**, *Humanities Division*. B.A., Univ. of California, Berkeley; M.A., Ph.D., Univ. of California, Santa Barbara.
- Watkins, Thomas**, *Business & Computer Science Division*. B.A., M.B.A., Golden Gate University.
- White, Diane**, *Humanities Division*. B.A., M.A.T., University of California, Davis.
- Whitesell, Janene**, *Fine & Applied Arts/Behavioral Sciences Division*. B.A., Calif. State Univ., Northridge; M.A., San Francisco State Univ.
- Widemann, Danielle**, *Math/Science Division*. B.S., University of California, Davis; M.S., University of California, Santa Cruz.
- Willer, Ann**, *Business & Computer Science Division*. B.S., New York Univ.; M.S., NOVA Southeastern Univ.
- Williams, Darla**, *Physical Education/Athletics Division*. B.S., California Polytechnic State University, San Luis Obispo; M.A., St. Mary's College; M.A., University of La Verne.
- Wright, Sanford A.**, *Humanities Division*. B.A., San Francisco State Univ.; M.S.W., Univer. of California, Berkeley; M.A., Ph.D., Univer. of Denver.
- Wylie, Earl**, *Business & Computer Science Division*. B.A., M.A., San Jose State Univ.; Ph.D., Univ. of California, Santa Barbara.
- Wyly, Michael**, *Humanities Division*. B.A., M.F.A., California State Univ., Long Beach.
- Yumae, Teri**, *Fine & Applied Arts/Behavioral Sciences Division*. B.A., M.A., California State University, Hayward; D.M.A., University of Southern California.
- Zak, Ron**, *Fine & Applied Arts/Behavioral Sciences Division*. B.A., M.A., San Francisco State University.

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## ***Adjunct Faculty***

Accooe, Reynando - Career Technical Education  
Adams, Dorene - Health Occupations  
Alexander, Charles - Business & Computer Science  
Allen, Darryl - Math/Science  
Anderson, Donna - Business & Computer Science  
Atwal, Gurpreet - Business & Computer Science  
Aubert, Alison - PE/Athletics  
Avelar, Nexus - Humanities  
Averett, Joyce - Health Occupations  
Avila-Tuttle, Gabriela - Humanities  
Bacal, Nadine - PE/Athletics  
Badtke, David - Humanities  
Bandy, Barbara - Fine & Applied Arts/Behavioral Sciences  
Barsotti, Gine - PE/Athletics  
Basaran, Vasfi - Math/Science  
Beaulieu, John - Math/Science  
Becker, Kimberly - PE/Athletics  
Belisle, Mary Ann - PE/Athletics  
Bennetts, Barbara - Fine & Applied Arts/Behavioral Sciences  
Bentley, Margaret - Business & Computer Science  
Betz, Deborah - Counseling/DSP  
Biesemeyer, Lisa - Humanities  
Biglen, Mildred - Career Technical Education  
Bischof, Otto - Math/Science  
Bishop, Carol - Fine & Applied Arts/Behavioral Sciences  
Bloomfield, Debra - Fine & Applied Arts/Behavioral Sciences  
Boerner, Howard - Humanities  
Boltz, Sabrina - Fine & Applied Arts/Behavioral Sciences  
Bonneau, Dorothea - Career Technical Education  
Boudreau, Gregory - Business & Computer Science  
Brunke, Monica - PE/Athletics  
Bunch, Richard - Humanities  
Burton, John - Humanities  
Bussewitz, Barry - Fine & Applied Arts/Behavioral Sciences  
Butters, Roger - Business & Computer Science  
Campos, Ruby - Business & Computer Science  
Canada, Marva - Counseling/DSP  
Carlin, Nancy - Fine & Applied Arts/Behavioral Sciences  
Carroll, Michael - Fine & Applied Arts/Behavioral Science  
Cavanagh, Leo - Fine & Applied Arts/Behavioral Sciences  
Cerati, Victoria - Humanities  
Cirrone, Steven - Humanities  
Clanton, Ed - Business & Computer Science  
Clark, Katherine - Math/Science  
Clarke, Natasha - PE/Athletics  
Clement, Susan - Health Occupations  
Coburn, Fred - Career Technical Education  
Collins, Tioni - Fine & Applied Arts/Behavioral Sciences  
Cotter, Steven - Career Technical Education  
Coury, Carlene - Humanities  
Cowan, Larry - Math/Science  
Cowee, Marion - Fine & Applied Arts/Behavioral Sciences  
Craven, Beth - Fine & Applied Arts/Behavioral Sciences  
Cross, Lauren - Math/Science  
Crow, Bill - Business & Computer Science  
D'Arcy, Anne - Humanities  
Daggs, Glenn - Career Technical Education  
Danko, Christopher - Business & Computer Science  
Davis, Todd - Humanities  
Dela O Salas, Maria - Humanities  
Donahue, Cliff - Humanities  
Dorcy, Margaret - Health Occupations  
Dick, Eugene - Career Technical Education  
DiFranco, Aaron - Humanities  
Dooly, Danielle - PE/Athletics  
Dowdy, Andrea - Humanities  
Dudley-Flores, Marilyn - Fine & Applied Arts/Behavioral Sciences  
Dudman, Matthew - Business & Computer Science  
Durante, Tom - Fine & Applied Arts/Behavioral Sciences  
Dusenberry, Victor - Career Technical Education  
Dybach, Joanie - Career Technical Education  
Ehat, Rosemary - Counseling/DSP  
Eldridge, Jan - Fine & Applied Arts/Behavioral Sciences  
Engdahl, Eric - Fine & Applied Arts/Behavioral Sciences  
Enneking, Carole - Business & Computer Science  
Ensminger, Michael - Math/Science  
Epstein, Robert - Fine & Applied Arts/Behavioral Sciences  
Erskin, Ernest - Career Technical Education  
Estes, Colleen H. - Humanities  
Federle, Steven - Humanities  
Fernandez, Germania - Humanities  
Fernandez-Mimms, C. - PE/Athletics  
Fessenden, Robert - Career Technical Education  
Flynn, Nora - Health Occupations  
Foley, Mark - Humanities  
Fong, Ronald - Math/Science  
Frizzell, Gail - PE/Athletics  
Froeliger, Drew - Humanities  
Gaines, Frederick - Fine & Applied Arts/Behavioral Sciences  
Galen, Ronald - Fine & Applied Arts/Behavioral Sciences  
Gantt, Gary - Career Technical Education  
Gerald, Jerry - Math/Science  
Gerardo, Carol - Business & Computer Science  
Geyer, Anna - Fine & Applied Arts/Behavioral Sciences  
Giambastiani, Lisa - Humanities  
Glankler, Robert - Career Technical Education  
Goldstein, Ronda - Humanities  
Goldstein, Richard - Business & Computer Science  
Goodwin, Michael - Career Technical Education  
Goodyear, Nancy - Math/Science  
Gordon, Denise - Health Occupations  
Gordon, Marilyn - Humanities  
Gravely, Steve - Math/Science  
Gregory, Sean - Math/Science  
Grimes, Jennifer - Fine & Applied Arts/Behavioral Sciences  
Grokenberger, Carla - Fine & Applied Arts/Behavioral Sciences  
Guyer, Rod - Fine & Applied Arts/Behavioral Sciences  
Hahn-Smith, Ann - Fine & Applied Arts/Behavioral Sciences  
Harlan-Ogbeide, Charlene - Fine & Applied Arts/Behavioral Sciences  
Harris, Jon - PE/Athletics  
Harwood, Stephen - Business & Computer Science  
Hassler, Craig - Business & Computer Science  
Hawkins, Cole C. - Math/Science

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Hayakawa, Alan - Fine & Applied Arts/Behavioral Sciences  
 Hefner-Gravink, Ann - Math/Science  
 Heilweil, Victoria - Fine & Applied Arts/Behavioral Sciences  
 Herndon, Brian - Fine & Applied Arts/Behavioral Sciences  
 Ho, Darwin - Math/Science  
 Hoekje, Stuart - Math/Science  
 Hogue, Kerri - Fine & Applied Arts/Behavioral Sciences  
 Holland, Stephen - Fine & Applied Arts/Behavioral Sciences  
 Homi, Julie - Fine & Applied Arts/Behavioral Sciences  
 Horning, Robert - Fine & Applied Arts/Behavioral Sciences  
 Hubbard, Leslie - Business & Computer Science  
 Huff, Christopher - Fine & Applied Arts/Behavioral Sciences  
 Huyssoon, Jay - Career Technical Education  
 Insull, Annemarie - Humanities  
 Isaacson, Valain - Business & Computer Science  
 Itaya, Patricia - Math/Science  
 Jagoda, Michael - Math/Science  
 Jaimez, LaNae - Fine & Applied Arts/Behavioral Sciences  
 Jenschke, Phillip - Career Technical Education  
 Johnson, Kevin - Fine & Applied Arts/Behavioral Sciences  
 Johnson, Tonmar - Fine & Applied Arts/Behavioral Sciences  
 Johnston, Russell - Math/Science  
 Kaufman, Craig - Humanities  
 Kaur, Kiran - Math/Science  
 Kearney, Gus - Humanities  
 Kearns, Kathryn - Fine & Applied Arts/Behavioral Sciences  
 Keith, Warren - Fine & Applied Arts/Behavioral Sciences  
 Khalilieh, John - Math/Science  
 Khorsandi, Shahrzad - PE/Athletics  
 Knight, Lynne - Humanities  
 Krider, Dana - Fine & Applied Arts/Behavioral Sciences  
 Kulasingam, George - Math/Science  
 Lawton-Haehl, John - Fine & Applied Arts/Behavioral Sciences  
 Lee, Lori - Career Technical Education  
 Lee, W. Grant - Business & Computer Sciences  
 Leininger, Tim - Math/Science  
 Leslie, Jezabel - PE/Athletics  
 Levy, Carol - Fine & Applied Arts/Behavioral Sciences  
 Lichty, Denise - Fine & Applied Arts/Behavioral Sciences  
 Linge, Richard - Business & Computer Science  
 Linz, Susan - Humanities  
 Livingston, Richard - Humanities  
 Low, Robert - Career Technical Education  
 Lui, Edward - Math/Science  
 Lum, Rebecca - Math/Science and PE/Athletics  
 MacLachlan, Lettie - Math/Science  
 MacMullen, James - Math/Science  
 Martinez, Jesus - Math/Science  
 McDermott, Louis - Humanities  
 McDonald, Theresa B. - Fine & Applied Arts/Behavioral Sciences  
 McIlvery, Joana - Fine & Applied Arts/Behavioral Sciences  
 McIver, Ian - Fine & Applied Arts/Behavioral Sciences  
 McLaughlin, Vivian - Fine & Applied Arts/Behavioral Sciences  
 McNamara, Jamie - Health Occupations  
 McNeil, Carmen - Counseling/DSP  
 McNeill, Joseph - Business & Computer Science  
 McReynolds, Gale - Fine & Applied Arts/Behavioral Sciences  
 Meade, Shannon - Humanities  
 Means, Joan - Fine & Applied Arts/Behavioral Sciences  
 Melter, Catherine - Health Occupations  
 Messenger, Patricia - Math/Science  
 Michals, Nils - Humanities  
 Miller, Jerry - PE/Athletics  
 Miller, Matthew - Fine & Applied Arts/Behavioral Sciences  
 Miller, Michael - Career Technical Education  
 Mills, Jim - Math/Science  
 Miner, Jerolyn - PE/Athletics  
 Moat, Ronald - Math/Science  
 Modrich, Michael - Health Occupations  
 Mols, Ole - Math/Science  
 Monnet, Dawn - Fine & Applied Arts/Behavioral Sciences  
 Morlock, Beverly - Math/Science  
 Morris, Jude - Humanities  
 Moucharafieh, Nadim - Math/Science  
 Nance, Marlon - Math/Science  
 Neely, John - Math/Science  
 Nelson, Jeffrey - Career Technical Education  
 Nicholson, Christine - Fine & Applied Arts/Behavioral Sciences  
 Norris, Barbara - Fine & Applied Arts/Behavioral Sciences  
 Nosce, Lilly - Math/Science  
 Ogden, Carl - Business & Computer Science  
 Oyao, Don - PE/Athletics  
 Pabst, Sharon - Humanities  
 Parkhurst, David - Health Occupations  
 Parsons, Robert - Fine & Applied Arts/Behavioral Sciences  
 Passalacqua, Kristine - Fine & Applied Arts/Behavioral Sciences  
 Pavloff, Nick - Fine & Applied Arts/Behavioral Sciences  
 Peck, Pamela - Fine & Applied Arts/Behavioral Sciences  
 Peoples, Hugh - Math/Science  
 Pepper, Mark - Humanities  
 Petrone, Christopher - Fine & Applied Arts/Behavioral Sciences  
 Phillips, Carla - Fine & Applied Arts/Behavioral Sciences  
 Pinto, Vincenzo - Math/Science  
 Pitesky, Maurice - Math/Science  
 Polishchuk, Boris - Math/Science  
 Pouget, Marsha - Career Technical Education  
 Prescott, Vernon - Business & Computer Science  
 Purdy, Alton - Business & Computer Science  
 Pyle, David - Business & Computer Science & Humanities  
 Rago, Ralph - PE/Athletics  
 Rainwater, Dianne - Fine & Applied Arts/Behavioral Sciences  
 Ratto, Robert - Career Technical Education  
 Reichel, Sarah - Humanities  
 Reinertson, Lisa - Fine & Applied Arts/Behavioral Sciences  
 Reynolds-Smith, Elaine - Fine & Applied Arts/Behavioral Sciences  
 Riedell, Christine - Fine & Applied Arts/Behavioral Sciences  
 Ringler, Michael - Fine & Applied Arts/Behavioral Sciences  
 Roberts, Lauren - Special Services  
 Robertson, Randall - Math/Science  
 Rodriguez, Hector - Math/Science  
 Roggli, Kurt - Humanities  
 Rutaganira, Thomas - Math/Science  
 Ryan, Sonia - Counseling/DSP  
 Sabetan, Farhad - Business & Computer Science  
 Sablan, Jr., Leandro - Career Technical Education  
 Salditos, Ascension - Humanities

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Salmon, Ray - Fine & Applied Arts/Behavioral Sciences  
Sanderson, Ray - Career Technical Education  
Schaffer, Jeffrey - Math/Science  
Schroeder-Evans, Kim - Humanities  
Segal, Thomas - Fine & Applied Arts/Behavioral Sciences  
Servis, Nancy - Fine & Applied Arts/Behavioral Sciences  
Shaffer, Nancy - Math/Science  
Shakikhan, Kaveh - Fine & Applied Arts/Behavioral Sciences  
Shlah, Zaid - Humanities  
Shatzer, Jane - Business & Computer Science  
Simonds, Candice - Fine & Applied Arts/Behavioral Sciences  
Sinsel, John - Career Technical Education  
Sloan, Jeffrey - Fine & Applied Arts/Behavioral Sciences  
Smith, Jennifer - Math/Science  
Smith, Randy - Math/Science  
Sonkin, Ken - Fine & Applied Arts/Behavioral Sciences  
Soria, Martin - Math/Science  
Souki, Hanan - Math/Science  
Souza, Michael - Humanities  
Spake, Reuben - Math/Science  
Spindt, Carla - Fine & Applied Arts/Behavioral Sciences  
Stahlkopf, Carole - Humanities  
Steggal, Eric - Fine & Applied Arts/Behavioral Sciences  
Stevens, Vesta - Health Occupations  
Stewart, Alvin - Math/Science  
Stockdale, Sharon - PE/Athletics  
Strickland, Joanne - Business & Computer Science  
Stritof, Theodore J. - Fine & Applied Arts/Behavioral Sciences  
Sturm, Elisabeth - Humanities  
Subramanian, Mani - Math/Science  
Sullivan, Zachary - PE/Athletics  
Tanaka, James - PE/Athletics  
Taylor, Steven - Fine & Applied Arts/Behavioral Sciences  
Thelen, Lance - Career Technical Education  
Thompson, Steven - Fine & Applied Arts/Behavioral Sciences  
Tsze, Tsang - Math/Science  
Valenzuela, Joe - Career Technical Education  
Valch, Mary - Math/Science  
Via, Thomas - Career Technical Education  
Villagran, Monique M. - Fine & Applied Arts/Behavioral Sciences  
Vranicar-Lewis, Jane - Fine & Applied Arts/Behavioral Sciences  
Wages, Paris - Fine & Applied Arts/Behavioral Sciences  
Wai, Newton - Math/Science  
Wallace, Joan - Counseling/DSP  
Wallin, Wendy - Fine & Applied Arts/Behavioral Sciences  
Watts, Val - Fine & Applied Arts/Behavioral Sciences  
Webster, Vince - Career Technical Education  
Whicher, Donna - Humanities  
White, Cynthia - Counseling/DSP  
Wilcox, Carmen - Health Occupations  
Winchester, Yachiyo - Humanities  
Winters, Dan - Career Technical Education  
Wooden, Tami - PE/Athletics  
Wright, Richard - Humanities  
Yanover, Lisa - Humanities  
Young, Anthony - PE/Athletics  
Young, Vickie - PE/Athletics  
Yriberry, Paul - PE/Athletics

Zaffron, Mark - Fine & Applied Arts/Behavioral Sciences  
Zidek, Albert - Fine & Applied Arts/Behavioral Sciences  
Zimmerman, Fredric B. - Fine & Applied Arts/Behavioral Sciences

## *Classified Staff*

Fawziya Abdullah - Small Bus. Development Ctr.  
Dana Alsip - Children's Programs  
Gale Anderson - Admissions & Records  
Judy Anderson - Admin. & Business Services  
Ralphine Andrus - Technology & Learning Resources  
Freddie Aquitania - Maintenance & Operations  
Alison Aubert - PE/Athletics  
Betty Austin - PE/Athletics  
Sally Bailey - Humanities  
Elizabeth Banks - Technology & Learning Resources  
Maureen Bates - CalWORKS  
Jon Breaw - Humanities  
Keith Brown - Technology Services & Support  
Kenneth Bryant - Maintenance & Operations  
Judith Burtenshaw - Children's Programs  
Corrina Calica - Children's Programs  
Kathleen Callison - Counseling/DSP  
Leah Campbell - Human Resources  
Barbara Cappel - Fiscal Services  
Sheryl Cavales-Doolan - Humanities  
Patricia Ceja - Business & Computer Science  
Robert Ceja - Maintenance & Operations  
Laurie Cheatham - Admissions & Records  
Steven Conner - Special Services  
Lisa Cook - Maintenance & Operations  
Patricia Cordry - Office of Supt./President  
Richard Crapuchettes - Math/Science  
Mary David - Admissions & Records  
Lisa Davidson - Special Services  
Steve Dawson - College Police  
Dao DeBernardi - Maintenance & Operations  
Dale DeFreece - Maintenance & Operations  
Lisa Delatorre - Fiscal Services  
Eduardo DelPilar - Maintenance & Operations  
Yvonne Dillard - Children's Programs  
Nancy DiPasquale - Financial Aid  
David Doty - Technology Services & Support  
Sabrina Drake - Fine & Applied Arts/Behavioral Sciences  
Michelle Duleck - Career Technical Education  
Charles Eason - Small Business Development Center  
Janice Eaves - Community Services  
James Ennis - Technology Services & Support  
Dolores Finnerty - Travis University Center  
Rochelle Fleming - Technology Services & Support  
Barbara Fountain - Admissions & Records  
Dyana Fuller - Academic Affairs  
Mostafa Ghous - MESA Program  
Zandra Gilley - Human Resources  
Jenny Gonzalez - Vacaville Center  
Joanne Goodsell - Tutoring Center  
Laurie Gorman - Student Services  
Christy Green - Math/Science

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Shirley Gunn - PE/Athletics  
 Christopher Guptill - Fine & Applied Arts/Behavioral Sciences  
 Diana Haley - Vallejo Center  
 Jeanne Hanson - Financial Aid  
 Ed Haskins - Maintenance & Operations  
 Bonnie Hendryx - Fiscal Services  
 Casey Hentzen - Business & Computer Science  
 Lisa Hiner - Technology Services & Support  
 Jonnie Hoggan - Financial Aid  
 Justin Howell - Technology Services & Support  
 Dena Hudson - Math/Science  
 Karen Jackson - Humanities  
 Rashmi Johal - Learning Resources  
 Gerry Kea - Vallejo Center  
 Barbara Kelley - Career Technical Education  
 Frank Kitchen - Maintenance & Operations  
 Rosemary Kroll - Maintenance & Operations  
 Christine Kucala - Math/Science  
 Martin Kulmus - Technology & Learning Resources  
 Donna Laroski - Business & Computer Science  
 Janice Larsen - Humanities  
 Jeffrey Lehfeldt - Maintenance & Operations  
 James Lewis - Maintenance & Operations  
 Susan Liley - Graphics  
 Amanda Lim - Fiscal Services  
 Lucky Lofton - Maintenance & Operations  
 Jennifer Low - Math/Science  
 Jerry Lowe - Career Technical Education  
 Chris Lugatiman - Graphics  
 Tracy Lukehart - Fine & Applied Arts/Behavioral Sciences  
 Donna Luttrell - Community Services  
 Sam Maher - Business & Computer Science  
 Regino Manansala - Graphics  
 Deborah Mann - Community Service/Contract Education  
 Frances Mason - Bookstore  
 Maureen Mason-Muyco - Counseling/DSP  
 Samuel McKinney, Jr. - P.E./Athletics  
 Teresa McLeod - Financial Aid  
 Donna Meyer - Community Services  
 Patricia Meyer - Maintenance & Operations  
 Ralph Meyer - Maintenance & Operations  
 Sharon Miranda - Children's Programs  
 Karen Mitchell - Academic Affairs  
 Patricia Mitchell - EOPS  
 Rosa Monroy - Counseling/DSP  
 Carolyn Moore - Counseling/DSP  
 Roxie Morgan - PE/Athletics  
 Deidra Moss - Fiscal Services  
 Sharon Muhammad - Children's Programs  
 Cynthia Murashige - College Police  
 Mary Ellen Murphy - Counseling/DSP  
 Sharron Murray - Human Resources  
 Renza Nassab - Career Technical Education  
 Nicole Nelson - Vacaville Center  
 Ronald Nelson - Maintenance & Operations  
 Kathy Nesler - Maintenance & Operations  
 Larry Nikkel - Maintenance & Operations  
 Dorothy Ohling - Math/Science  
 George Olgin - Humanities  
 Nora O'Neill - Office of Supt./President  
 Rose Orrmons - Student Development  
 Sharon Pabst - Humanities  
 Maria Panduro - Fiscal Services  
 Sidne Parker - Counseling/DSP  
 Esther Petrie - Fiscal Services  
 Beverly Pfeiffer - Small Business Dev. Center  
 Doug Pierce - Math/Science  
 Claudia Purvis - Admissions & Records  
 Jose Ramos - College Police  
 Ignacio Rivera - Maintenance & Operations  
 Lourdes Rivera - Maintenance & Operations  
 Laura Robinson - Maintenance & Operations  
 Lurlean Robinson - Maintenance & Operations  
 Terri Sanders - Bookstore  
 Hai-Yen Scoccia - Fiscal Services  
 Sheryl Scott - Career Technical Education  
 Ann Short - Community Services  
 John Siefert - Vallejo Center  
 Rob Simas - Research & Planning  
 Cynthia Simon - EOPS  
 Carol Smith - Bookstore  
 Ona Smith - Financial Aid  
 Patrice Spann - Fine & Applied Arts/Behavioral Sciences  
 Judy Spencer - Academic Affairs  
 Padungsak Srisung - Maintenance & Operations  
 Lisa Stedman - Children's Programs  
 Zafer Sun - Student Placement  
 Ray Tanaka - Learning Resources  
 Maggie Terry - Admissions & Records  
 Kathleen Theobald - Admissions & Records  
 Galen Tom - Vallejo Center  
 Marge Trolinder - Graphics  
 Kelly Trujillo - Maintenance & Operations  
 Thomas Trujillo - Bookstore  
 Andrea Uhl - Admissions & Records  
 Amy Utt - Counseling/DSP  
 Juan Valenzuela, Jr. - Bookstore  
 Juwan Vartanian - Children's Programs  
 Donna Vessels - Academic Affairs  
 Lori Vialpando - Children's Program  
 Eric Vlnar - Maintenance & Operations  
 Anthony Washington - Maintenance & Operations  
 Reginald Wilhite - College Police  
 Cheryl Williams - Counseling/DSP  
 Debbie Williams - Health Occupations  
 Kim Wirth - Technology & Learning Resources  
 Kristine Wollrich - Humanities  
 Larry Yoder - Technology Services & Support  
 Jeff Yterdal - Bookstore

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# Solano College Communication

(707) Area Code • 864-7000 Main Line

Website: [www.solano.edu](http://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 Affairs	864-7137	Financial Aid	864-7103
Admissions & Records		Fine & Applied Arts &	
Information	864-7171	Behavioral Sciences Div.	864-7114
Assessment Center	864-7118	Fire Technology Coordinator	864-7148
Athletics	864-7126	Health Occupations Division	864-7108
Bookstore	864-7111	Health / Physical	
Business & Computer		Education Division	864-7126
Science Division	864-7179	Health Services (Nurse)	864-7163
Cafeteria Office	646-2874	Horticulture	864-7155
Campus Police	864-7131	Human Resources Job Line	864-7129
Career Technical		Human Resources Office	864-7128
Education Division	864-7221	Humanities Division	864-7107
Community Services	864-7115	Library	864-7132
Contract Education & Training	864-7195	Maintenance and Operations	864-7196
Cosmetology Receptionist	864-7180	Mathematics & Science	
Counseling & Guidance	864-7101	Division	864-7110
Criminal Justice Coordinator	864-7149	Nursery School	864-7182
Disabled Services	864-7136	Nursing (see Health Occupations Division)	
Early Childhood Education	864-7183	Occupational Education	864-7155
English/Foreign Languages	864-7107	Occupational Work Exp.	864-7139
		Parking Information	864-7131
<b>Fax Numbers:</b>		Public Info. - Nancy Hopkins	864-9311
Admissions & Records		Small Business Dev. Ctr.	
(OAR)	864-7175	424 Exec Ct North; Suite C	864-3382
Bookstore	864-1357	Special Services -	
Business & Computer		EOPS/CARE	864-7145
Science Division	864-7190	Student Development	864-7168
Business Office/Fiscal Svcs	864-7146	Re-entry Services	864-7263
Career Technical Education		Student Placement Services	864-7124
Division	864-7140	Student Services	864-7102
Community Services	864-7210	Superintendent - President	864-7112
Counseling Office	864-7270	Switchboard	864-7000
EOPS	864-7806	From Vallejo Telephones	552-4330
Financial Aid	864-7807	Technology & Learning	
Fire Science	864-7229	Resources	864-7106
Fiscal Services	864-7146	Tech Services & Support	864-7267
Graphics (main fax)	864-0361	Theatre Box Office	864-7100
Human Resources	864-7143	Transfer Center	864-7158
JFK (Vallejo)	552-8924	Vacaville Center	446-2900
Library	864-7231	Vallejo Office - JFK Library	642-8188
Maintenance	864-7192	Veterans Affairs	864-7105
Nursing	863-7803	Work Experience	864-7139
Physical Education	864-7156	Workforce Development	864-7000, ext. 596
Placement/Students	864-7186	Foundation	864-7177
Small Bus. Dev. Ctr	864-8025		
Superintendent/President	864-7213		
Theater	864-7299		
Vacaville Ctr	864-7216		
Veteran's Office	864-7220		
Work Experience	864-7165		
Workforce & Comm. Dev.	864-7194		

## College E-mail

You can e-mail just about anyone at Solano College by using this formula:

(first name).(last name)@solano.edu

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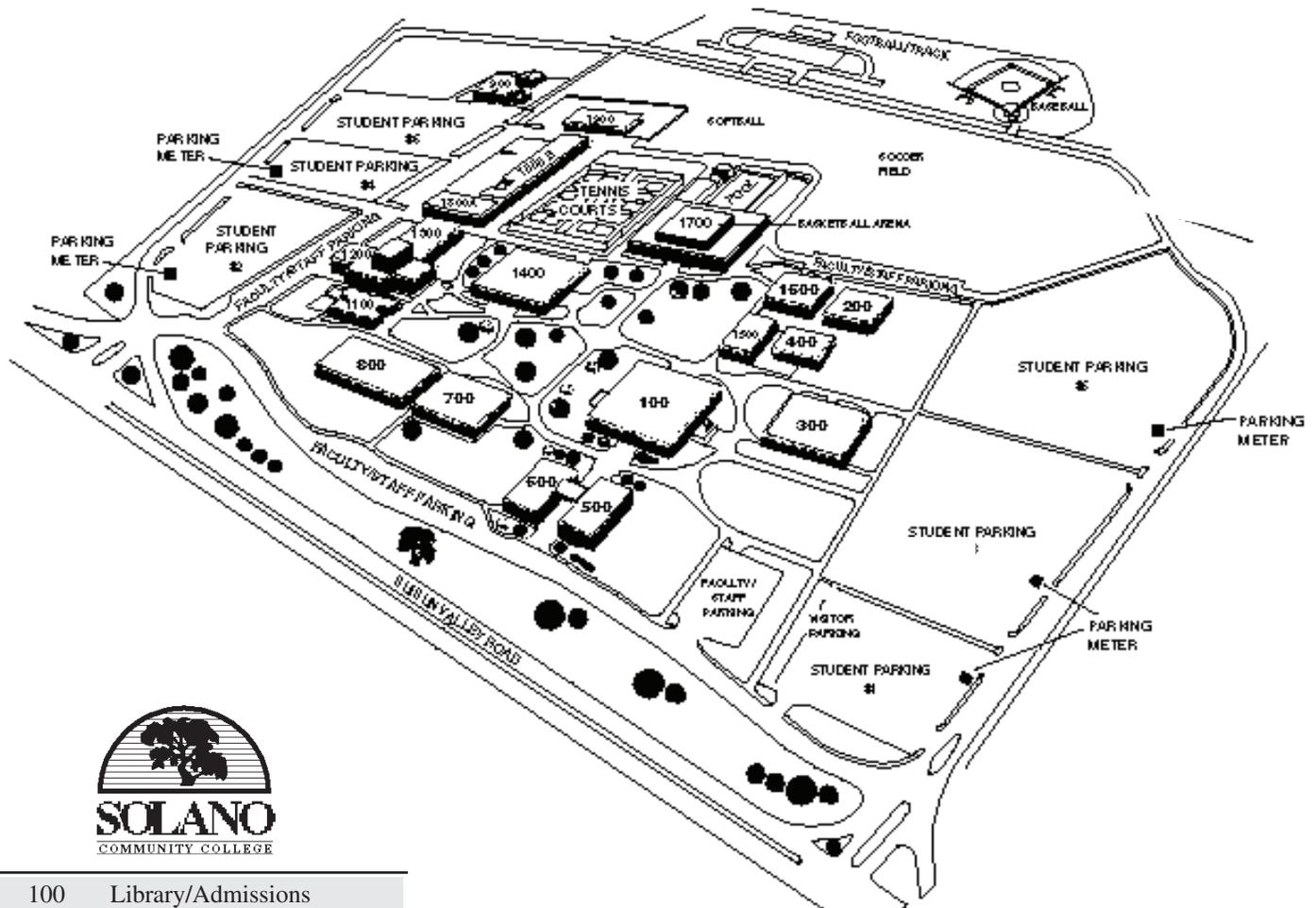
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# Campus Map

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, Fairfield, Vacaville, Benicia and Dixon.

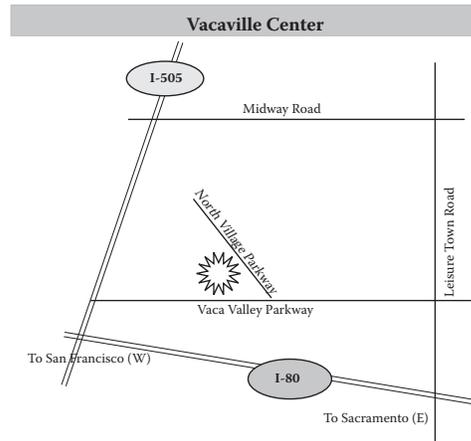


100	Library/Admissions
200	Children's Programs Center
300	Science
400	Childcare Center
500	Business
600	Administration
700	Social Science/Humanities
800	Nursing/Public Service
900	Horticulture
1100	Special Services/Police
1200	Little Theater/Music
1300	Fine Arts
1400	Student Center/Bookstore
1500	Math/Engineering
1600	Home Ec/Cosmetology
1700	Physical Education
1800	Career Technical Education
1900	Warehouse/Maintenance

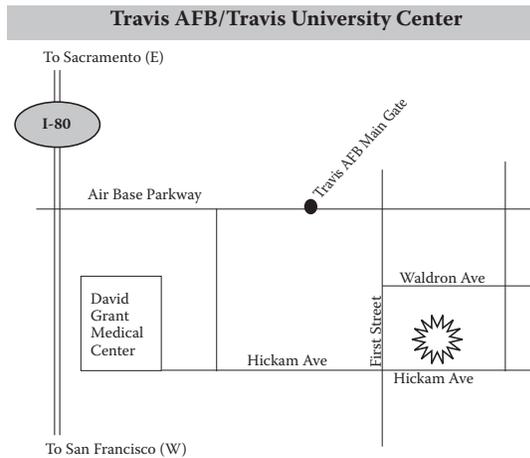
Parking regulations are enforced when day and evening classes are in session. All students enrolled in coursework on campus and those who regularly use facilities must purchase parking decals (See the Fee Schedule). Special car pooling spaces are available through Rideshare.

Visitors can park in Lot #1 if they plan to be on campus for 30 minutes or less. Otherwise, they should purchase a \$1 ticket (four quarters) from the red meter in a student parking lot.

# Off Campus Sites

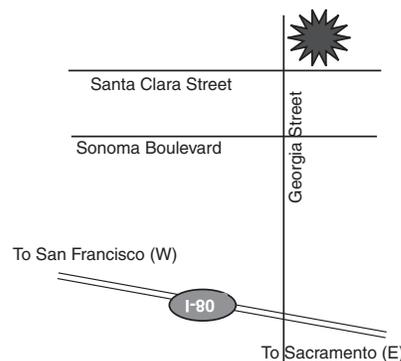


The Solano Community College Vacaville Center is located at 2000 North Village Parkway. Turn onto North Village Parkway from Vaca Valley Parkway. The Center will be on your left. For more information on the location and hours of the Center, please go to our web site:  
[http://www.solano.edu/campus\\_sites/vaca\\_center.html](http://www.solano.edu/campus_sites/vaca_center.html)



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. Park in the Visitor Center parking lot and enter the Visitor's Center to obtain your base pass. Instructions for obtaining the pass are on the Travis Air Force Base page in this schedule (Page 106). After obtaining a pass, proceed through the Main Gate, staying on the same street. Turn right onto First Avenue, then left on Waldron. 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. For more information regarding our site at Travis Air Force Base, please refer to the SCC website:  
[http://www.solano.edu/campus\\_sites/tafb.html](http://www.solano.edu/campus_sites/tafb.html)

## Vallejo Center



The Solano Community College Instructional site in Vallejo is located at the John F. Kennedy Library (lower level), at the corner of Georgia Street and Santa Clara: 505 Santa Clara Street, Vallejo, CA 94590.

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