Sacramento City College

3835 Freeport Boulevard
Sacramento, California 95822
(916) 558-2111
www.scc.losrios.edu

Los Rios Community College District

1919 Spanos Court
Sacramento, California 95825
(916) 568-3041

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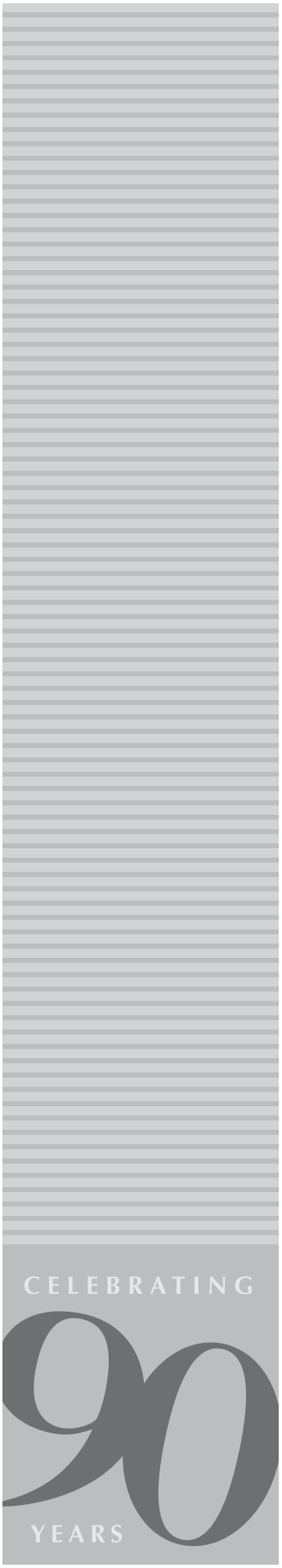

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Important Phone Numbers and Email Addresses

Admission and Application Information ..... (916) 558-2351
sccaeinfor@scc.losrios.edu
Assessment Appointments and Information ..... (916) 558-2540
Business Office ..... (916) 558-2321
Counseling Appointments for day and evening ..... (916) 558-2204
College Store ..... (916) 558-2421
sccbkstore@scc.losrios.edu
Dental Continuing Education ..... (916) 558-2443
Health Office ..... (916) 558-2367
Los Rios eServices ..... www.src.losrios.edu
Police Services Office ..... (916) 558-2365
Telephone Enrollment System ..... (916) 286-4400
Or 1-800-700-4144
sccreg@scc.losrios.edu

Instructional Division Offices

Advanced Technology ..... (916) 558-2491
Behavioral and Social Sciences ..... (916) 558-2401
Business ..... (916) 558-2581
Humanities and Fine Arts ..... (916) 558-2551
Language and Literature ..... (916) 558-2325
Learning Resources ..... (916) 558-2253
Physical Education, Health, and Athletics ..... (916) 558-2425
Mathematics/Statistics & Engineering ..... (916) 558-2202
Science and Allied Health ..... (916) 558-2271

Off-Campus Instructional Centers

Davis Center ..... (530) 747-5200
Downtown Center ..... (916) 558-2640
West Sacramento Center ..... (916) 375-5511

Notice to Students

The information contained in the catalog is advisory only and does not constitute a contractual agreement by the college or guarantee that course content will be strictly followed or fulfilled. The Board of Trustees and the Administration of the Los Rios Community College District reserve the right to change at any time, without notice, academic requirements to graduate, curriculum course content and structures, and such other matters as may be within their control, notwithstanding any information set forth in this catalog.

Special Acknowledgment to

Marilyn Keefe Perry - Copy Coordination and Preparation
SCC Graphic Impressions - Layout
Phillips Design - Cover

Academic Calendar

Summer Session 2006

June 12	Instruction Begins, First Session
June 26	Instruction Begins, Six week/Second Session
July 4	Holiday-Independence Day
July 6	End of Fourth Week/First Session
July 10	Instruction Begins, Fourth week/Second Session
July 20	Final Exams and End of Six week/First Session
August 3	Final Exams and End of Four week/Second Session
August 3	Final Exams and End of Six week/Second Session
August 3	Final Exams and End of Eight week Session

Fall Semester 2006

August 21	Instruction Begins
September 4	Holiday - Labor Day
November 10	Holiday - Veteran's Day
November 21	Last day to drop full semester classes
November 23-26	Thanksgiving Recess
December 22	End of Semester
December 23-Jan 2	Winter Recess
January 3-15, 2007	Semester Break

Spring Semester 2007

January 15, 2007	Holiday - King's Birthday
January 16	Instruction Begins
February 16	Holiday - Lincoln's Birthday
February 19	Holiday - Washington's Birthday
April 2-8	Spring Recess
April 21	Last day to drop full semester classes
May 23	End of Semester/Commencement

*Please check the Schedule of Classes or the SCC Academic Calendar at http://www.losrios.edu/lrc/lrc_calend.html for more current information.

Administration

College President	Arthur Q. Tyler
Vice Presidents	
Administration	Robert J. Martinelli
Instruction	Deborah J. Travis
Student Services	To Be Announced
Administrators	
Administrative Services	Gregory L. Hayman
Admissions and Records, Financial Aid, and EOP&S	Pat Miyai Maga, Interim
Advanced Technology	Donnetta Webb
Behavioral and Social Sciences	Jesus (Frank) Malaret
Business	Shirley Short
College and Community Relations	Mary M. Leland
College Store	John D. Working
Counseling and Student Success	Delecia J. Nunnally-Robertson
Davis Center	John E. Ruden
Economic and Workforce Development	Richard J. Ida
Health Career Grants	James L. Comins
Humanities and Fine Arts	Chris R. Iwata
Information Technology	Dr. Elaine Ader
Language and Literature	Albert Garcia
Learning Resources	Yvonne Maller
Mathematics/Statistics and Engineering	Anne E. Licciardi, Interim
Matriculation, Support Services, and Student Development	Lawrence G. Dun
General Education and Outreach Programs	Julia Jolly
Physical Education, Health, and Athletics	Gary E. Torgeson
Planning, Research, and Institutional Effectiveness	Dr. Nelle Moffett
Science and Allied Health	Mary K. Turner
Student Services and Initiatives	Victoria C. Rosario, Interim
West Sacramento and Downtown Centers	Dr. Debra J. Luff

Organization of the Instructional Areas

Students wishing to inquire about programs and courses may contact their Counselor or the Division Offices as listed below:

Advanced Technology

Donnetta Webb, Dean
Auditorium 1, (916) 558-2491
Aeronautics
Cosmetology
Electric Vehicle Technology
Electronics Technology
Engineering Design Technology
Flight Technology (see Aeronautics)
Graphic Communication
Mechanical-Electrical Technology
Motorcycle Maintenance
Photography
Railroad Operations
Surveying (Geomatics) (See Engineering Design Technology)

Behavioral and Social Sciences

Jesus (Frank) Malaret, Dean
Rodda North 226, (916) 558-2401
Administration of Justice
Anthropology
Early Childhood Education
Family and Consumer Science
Fashion and Interior Design
Geography
Gerontology
History
International Studies
Instructional Assisting
Liberal Studies for Elementary Teachers
Political Science
Psychology
Social Sciences
Sociology
Women's Studies

Business

Shirley Short, Dean
Business Building 213, (916) 558-2581
Accounting
Bookkeeping and Office Management (See Business)
Business
Computer Information Science
Economics
Management (See Business)
Marketing (See Business)
Office Administration (See Business)
Real Estate (See Business)

Counseling and Student Success

Delecia Nunnally-Robertson, Dean
Rodda North 111, (916) 558-2204
Human Career Development
Work Experience and Internships

Humanities and Fine Arts

Chris Iwata, Dean
Auditorium 19a, (916) 558-2551
Art
Communication
Foreign Languages
Humanities
Music
Philosophy
Sign Language Studies
Theatre Arts

Language and Literature

Albert Garcia, Dean
Rodda South 226, (916) 558-2325
English
English as a Second Language
English - Reading
Journalism

Learning Resources

Yvonne Maller, Dean
Learning Resources Center 236, (916) 558-2253
Library
Library and Information Technology

Physical Education, Health and Athletics

Gary Torgeson, Dean
Hughes Stadium, Sections 1 & 3, (916) 558-2425
Adaptive Physical Education
Athletic Training
Athletics
Health Education
Physical Education
Recreation

Mathematics/Statistics & Engineering

Anne E. Licciardi, Interim Dean
South Gym 220, (916) 558-2201
Engineering
Mathematics
Statistics

Science and Allied Health Division

Mary Turner, Dean
Mohr Hall 18, (916) 558-2271
Allied Health
Astronomy
Biology
Chemistry
Dental Assisting
Dental Hygiene
Geology
Registered Nursing
Vocational Nursing
Occupational Therapy Assistant
Physics
Physical Therapist Assistant

President's Message

Welcome to Sacramento City College (SCC). Whether you plan to transfer, earn a degree or certificate, or are taking classes for personal enrichment, you will find what you're seeking and much more. For 90 years, students in the Sacramento community have made SCC Choice One to fulfill their dreams.

Whether you're interested in studying trigonometry, English literature, business, or music, SCC faculty is among the most outstanding in the area. You will receive the same caliber of instruction here that you would at a university. I encourage you to take advantage of our small class sizes to get to know your professors. We also have a Transfer Center to ensure your smooth transition to your next educational step. You have made the right choice.

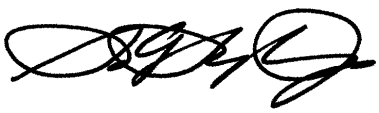
If you're interested in completing your education or upgrading your skills with a certificate or a degree, we have a brand new Advanced Technology building that houses our graphic communication and photography programs and a huge MAC/CAD lab. We also offer certificates in cosmetology, motorcycle maintenance, aeronautics, and railroad operations, to name a few. You have made the right choice.

SCC is known not only for its academic excellence, but for being a community of learners. Faculty, managers, and staff feel very strongly that our job is to help you to succeed. We have many services to support your educational journey; visit the Student Support Services section of this catalog for descriptions of all of our programs and services. Student organizations are also excellent support networks. They will help you to connect with peers who share and reinforce your dreams, so get involved in our many academic and social clubs, athletic teams and the Associated Student Government. We will spend this year celebrating our 90th birthday, so there will be more opportunities than ever for participation in college events as a member of one of these groups. You have made the right choice.

Even though SCC is the most inexpensive option around, I know that going to college can be difficult financially—I was once a student, too. You can get help with your college expenses with a Board of Governors Fee Waiver, a Pell Grant, a scholarship, or even a loan. Drop by the Financial Aid Office, or access their website, to explore your options.

One of the reasons you may have chosen SCC is because of its central location. You may take Regional Transit bus or light rail directly to the City College station, which links to most points within the metropolitan area. Your Student Access card is your reduced rate transit pass and it is good seven days a week during the fall and spring semesters. Make sure to take advantage of this incredible bargain!

At SCC, you will be respected and valued. Adding your diverse experiences to the campus mix enriches everyone's education. Your presence here will positively impact the campus, and, conversely, SCC will help you transform your life. Thank you for making SCC Choice One.



Art Tyler
President

About the College

Our Core Values

Working Together • Pursuing Excellence • Inspiring Achievement

Our Mission

Sacramento City College is an open-access, comprehensive community college, serving a diverse student population. We provide a wide range of educational opportunities and support services leading to transfer, career advancement, basic skills development, and personal enrichment. Through these efforts, we contribute to the intellectual, cultural, and economic vitality of the community.

Our Vision

Sacramento City College seeks to create a learning community that celebrates diversity, nurtures personal growth, and inspires academic and economic leadership.

Accreditation

Sacramento City College is officially accredited by the Western Association of Schools and Colleges. The University of California and all other accredited colleges and universities give full credit for appropriate courses completed at Sacramento City College. The college holds institutional memberships in the American Association of Community Colleges and the Community College League of California. Additional accreditation has been granted by the Commission on Dental Accreditation, the Commission on Accreditation in Physical Therapy Education, the Accreditation Council for Occupational Therapy Education of the American Occupational Therapy Association, the California Board of Registered Nursing, the California Board of Vocational Nurse and Psychiatric Technician Examiners, the Dental Board of California, the Federal Aviation Administration, and the California Board of Cosmetology and Barbering.

Philosophy and Purpose of the College

Sacramento City College believes in the potential of every person to be successful and takes pride in the college capability to inspire each person to reach and stretch through the creation of new knowledge. The interaction of diverse ideas, culture, and ethno-social experiences adds value to the learning process and enhances the community we serve. The college is accessible to all who desire to apply, regardless of previous educational background. The college is a learning environment for all that stresses continuous improvement and life-long learning for all.

The purpose of Sacramento City College is to provide academic, training, and social opportunities where critical thinking and critical skills are developed. The college is responsive to the emerging educational needs of the community. The college is a resource for the community, the economic evolution of the community, and a portal to the global marketplace.

To implement its philosophical commitments and purpose, the college provides a variety of programs, which include the following:

General Education

Courses which introduce students to basic subjects, the humanities, the natural sciences, and the social sciences, in order to further their knowledge, skills, and attitudes for self-development.

Occupational Education

Technical-vocational training in skills and a sufficient number of general education courses to qualify or re-qualify students for employment in business and industry.

Developmental and Basic Skills Education

Courses and services that will provide students of widely divergent abilities and motivation the opportunity to acquire the basic skills needed to succeed in college.

Lower Division Post-Secondary Education (Transfer Education)

These courses which parallel the first and second year courses of four-year colleges and universities and prepare students to transfer to such institutions.

Distance Education

Distance Education (DE) offers learning opportunities outside of classroom, usually from home or a conveniently located off-campus site. DE allows students to earn college credits with fewer on-campus hours.

Our DE courses are designed to fit busy schedules and advance academic goals with a challenging educational experience. SCC is committed to giving our DE students the same individual support, academic standards, and experienced faculty found in our classrooms - plus the freedom to choose the learning mode: hybrid, interactive television, online, or telecourse.

All of our DE courses are approved for presentation through each DE mode by the Sacramento City College Curriculum Committee to ensure equivalent learning experience and academic rigor.

For complete information on the Distance Education Program, visit the DE website at http://web.scc.losrios.edu/de.

Outreach Centers

Outreach Programs-Sacramento City College offers many of its credit courses at community outreach locations. Inasmuch as these classes are the same as those taught at the main campus, a student can complete many general education and major requirements for an associate degree or certificate or for transfer to a four-year school at these locations.

These sites are:

Davis:
1909 Galileo Street, Suite B
Davis, CA 95616
Information: (530) 747-5200

Downtown:
1209 4th Street
Sacramento, CA 95814
Information: (916) 558-2640

West Sacramento:
1275 Halyard Drive
West Sacramento, CA 95695
Information: (916) 375-5511

Business and Professional Development

Contract Education/Contract Training-Customized courses for Sacramento area businesses, governmental agencies and professional organizations are now offered in cooperation with Sacramento City College's Training Source. The Training Source staff works closely with the business community to meet specific training needs by offering contract education and training programs. Credit courses that may lead to a degree or certificate can be taught at your worksite. For more information about contract education or training programs, please call the Training Source at (916) 568-3230.

Founding and Organization

Founded in 1916 as a Department of Sacramento High School, Sacramento City College is the seventh oldest public community college in California and the oldest institution of higher learning in Sacramento.

In 1922, the citizens of Sacramento organized a junior college district by severing the connections between the college and Sacramento High School. This plan of organization remained in force until 1936 when the college became a part of the Sacramento City Unified School District.

Twenty-eight years later, as a result of a March 17, 1964 election, Sacramento City College separated from the Sacramento City Unified School District to join the newly organized Los Rios Junior College District which assumed the operation of American River College and Sacramento City College. In 1970 the newly renamed Los Rios Community College District opened a third campus, Cosumnes River College. Folsom Lake College became the fourth fully accredited college in the District in 2003.

Sacramento City College Foundation (SCCF)

The Sacramento City College Foundation benefits students, faculty, and staff. The SCCF is classified by the Internal Revenue Service as a 501(c)3 organization under the umbrella of the Los Rios Foundation. Contributions are deductible for tax purposes as allowable by law.

The SCCF vision is to become a vital resource for the Sacramento region, helping to foster ongoing partnerships between SCC and all sectors of community life. The SCCF mission is to enhance the level of achievement and excellence of SCC by providing scholarships, supporting the professional development of faculty and staff, and fostering innovation in the educational programs of SCC.

Buildings and Facilities

When the college outgrew its temporary quarters in the high school, the citizens of Sacramento voted bonds for a new college site and buildings. Sixty acres on Freeport Boulevard opposite William Land Park were purchased and in September 1925, the cornerstone of the first new building was laid. The college was transferred in 1926 to its new permanent campus.

The first new buildings consisted of administration, classroom and laboratory units and a gymnasium. With expansion came the demand for more buildings. Between 1928 and 1965 many other facilities were added to the original plan. Lillard and Mohr Halls were ready for occupancy in the spring semester of 1963. These buildings house Science and Nursing Education. During the 1964-65 school year a new wing of the library, a new cafeteria, and new facilities for men's physical education became available. A Student Center and an additional Physical Education Building were constructed in 1969. In 1970, the Business-Learning Center Building, the Art Court Theatre and the Graphic Arts-Cosmetology Building were ready for occupancy. The Aeronautics addition was completed in Spring, 1974 and was dedicated in May, 1982 as the Hilton F. Lusk Aeronautical Center. The original classroom building was replaced in 1976 with a new classroom-administration structure that was dedicated May, 1980 as Rodda Hall.

1980 also witnessed the remodeling of the Administration of Justice Building, the conversion of the Engineering Building into art laboratories (dedicated in May, 1982 as the Amalia Fischbacher Fine Arts Building) and the construction of a welding facility as well as a remodel of the nursing facility. During 1990-1991 a performing arts complex, including a music building, was completed. Remodeling of the Auditorium interior was completed in 1993 and dedicated in October of that year. A Child Development Center was completed in 1993 and dedicated in November, 1993. A new Learning Resource Center opened in the fall of 1998.

With the development of the College's Facilities Master Plan in 2003, the College has embarked on a modernization and parking improvement program that will span the next decade and beyond. A new 2,000 space parking garage is under construction and scheduled to be completed in 2006. The Technology building was modernized and completed in Spring 2006 to be followed by the Cosmetology building scheduled for Fall 2006. The next buildings planned for modernization include the North Gym (2007), Fine Arts (2008), and Performing Art Center (2009).

Los Rios Community College District Non-Discrimination Policy

The Los Rios Community College District is in compliance with all pertinent Titles and Sections of the Civil Rights Act of 1964, the Educational Amendments of 1972, the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and all other applicable Federal, State and local laws.

It is the policy of the Los Rios Community College District to take action to guarantee that no qualified student or prospective student or any person in his/her educational relationship with the District shall be discriminated against or excluded from any benefits, activities, or programs on the grounds of ethnic group identification, religion, sex, age, color, sexual orientation, or physical or mental disability, nor shall any students be discriminated against for conversing in a language other than English. However, students shall be required to speak English when an instructional setting necessitates the use of English for educational or communication purposes.

The District further complies with those Federal and State laws and the regulations of the Board of Governors of the California Community Colleges which prohibit sexual harassment. In addition, the college supports and complies with the Federal Carl D. Perkins Vocational and Technical Education Act of 1998 by reducing sex discrimination, sex bias, and sex stereotyping in vocational education and employment.

Such non-discrimination policies extend to all of the functions and activities of the Los Rios Community College District including employment and employment selection, educational programs, services, admissions, and financial aid. Student equity in all academic and vocational programs is a primary goal of the college.

The lack of English language skills will not be a barrier to admission to and participation in vocational education programs.

The college also attempts to achieve a balanced staff representative of the composition of the community so that students will have an opportunity to relate to members of minority races, ethnic groups, individuals with disabilities, and women.

Inquiries can be directed as follows:

*** Equity Officer**

Julia Jolly, Associate Vice President, General Education and Outreach Programs, RN257, Instruction Office, (916) 558-2386, with inquiries regarding:

- Staff or student complaints based on ethnic group identification, religion, age, color, language, physical disability, mental disability, sex (gender), sexual orientation, sex bias, and sex stereotyping.
- Training and appointments of Equity representatives for employee selection committees.
- Title IX and gender equity.

Política contra la discriminación

El Distrito Universitario Comunitario Los Rios, en cumplimiento con todos los Títulos y Secciones pertinentes de la Ley de Derechos Civiles de 1964, las Enmiendas Educativas de 1972, la Ley de Rehabilitación de 1973, la Ley de Americanos con Incapacidades y todas las demás leyes aplicables federales, estatales y locales, no discrimina con base en la raza, color, estado civil, religión, preferencia sexual, nacionalidad, sexo, edad de estado de inhabilitado o veterano de la guerra de Vietnam, incapacidad física o mental; y ningún estudiante será discriminado por conversar en un idioma que no sea inglés, en ninguna de sus funciones o actividades, incluyendo el empleo.

El Distrito cumple además con aquellas leyes federales y estatales y las normas de la Junta de Directores de los Colegios Comunitarios de California, las cuales prohíben el hostigamiento sexual.

Tales políticas antidiscriminatorias se extienden a todas las funciones y actividades del Distrito Universitario Comunitario Los Rios, incluyendo el empleo y la selección de empleos, programas educativos, servicios, admisiones y ayuda financiera. Todas las preguntas acerca de esta política pueden ser dirigidas a Sacramento City College.

La falta de conocimiento del idioma Inglés no será impedimento para la admision y participacion en el Programa Educativo Vocacional.

The SCC Instruction Office (916) 558-2386; Rodda North, Room RN 257; or Ann Aaker, Associate Vice Chancellor of Human Resources, Los Rios Community College District, 1919 Spanos Court, Sacramento, CA 95825 (916) 568-3101; or to the Director of the Office of Civil Rights, U.S. Department of Health, Education and Welfare, Washington, D.C.

This publication was produced pursuant to grant agreement number 02-342-003. This project was supported by Carl D. Perkins Vocational and Technical Education Act of 1998 (VTEA), Title 1-B, State Leadership funds awarded to Cosumnes River College, Los Rios Community College District Grantee by the Chancellor's Office, California Community Colleges.

"No person shall, on the grounds of sex, race, color, national origin or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under this project."

LOS RIOS COMMUNITY COLLEGE DISTRICT BOARD OF TRUSTEES

Kay Albiani, Ann Blackwood, Terry Cochran, Pamela Haynes, Tim Loree, Bruce Pomer, Ruth Scribner, and Student Trustee.

Faculty Code of Ethics

Preamble: The following is a statement defining some areas of ethical behavior towards students by faculty. It is based on discussions held at a workshop for faculty and staff in the spring of 1987. The Equity Committee unanimously passed the following statement. This statement has been endorsed by the Faculty Senate and sent to all members of the faculty and to all administrators as a statement of professional standards.

1. Recognizing that, at times, students will offer us gifts or favors, we must be aware of potential implications. Acceptance of such offerings should be avoided.
2. Recognizing that student sensitivities must be respected, we must appreciate that remarks based on gender, race, religious or ethnic group, physical handicap or sexual orientation are inappropriate in the classroom environment.
3. Recognizing that instructors are concerned with the welfare of students and that students will, at times, wish to share information of a personal nature, it is appropriate for faculty to listen sympathetically to students but not to elicit, reveal or exploit confidential information.
4. Recognizing that while amorous relationships are appropriate in other circumstances, we accept that such relationships are always inappropriate when they occur between any faculty member and his or her student. Further, such relationships may have the effect of undermining the atmosphere of trust on which the educational process depends. Implicit in the idea of professionalism is the recognition by those in positions of authority that in their relationships with students there is always an element of power. It is incumbent upon those with authority, not to abuse, nor appear to abuse, the power with which they are entrusted.
5. Recognizing that under certain circumstances touching students may be appropriate, we acknowledge that sexual touching of a student by an instructor is never appropriate.
6. Professional interaction between students and instructors should always take place in an academic setting.
7. Instructors should never engage in nor condone sexual harassment. In the academic context, the term "sexual harassment" may be used to describe a wide range of behavior. The fundamental element is the unwelcomed personal attention by an instructor who is in a position to determine a student's grade or student employment or otherwise affect the student's academic performance or professional future.

Faculty Statement of Professional Ethics

I. Faculty members, guided by a deep conviction of the worth and dignity of the advancement of knowledge, recognize the special responsibilities placed upon them. Their primary responsibility to their subjects is to seek and to state the truth as they see it. To this end they devote their energies to developing and improving their scholarly and teaching competence. They accept the obligation to exercise critical self-discipline and judgment in using, extending and transmitting knowledge. They practice intellectual honesty. Although they may follow subsidiary interests, these interests must never seriously hamper or compromise their freedom of inquiry.

II. As teachers, faculty members encourage the free pursuit of learning in their students. They hold before them the best scholarly standards of their discipline. They demonstrate respect for the student as an individual and adhere to their proper role as intellectual guides and counselors. They make every reasonable effort to foster honest academic conduct and to assure that their evaluation of students reflects their true merit. They respect the confidential nature of the relationship between faculty member and student. They avoid any exploitation of students for their private advantage and acknowledge significant assistance from them. They protect their academic freedom.

III. As colleagues, faculty members have obligations that derive from common membership in the community of scholars. They respect and defend the free inquiry of their associates. In the exchange of criticism and ideas they show due respect for the opinions of others. They acknowledge their academic debts and strive to be objective in their professional judgment of colleagues. They accept their share of faculty responsibilities for the governance of their institution.

IV. As members of their institution, faculty members seek above all to be effective teachers and scholars. Although they observe the stated regulations of the institution, provided they do not contravene academic freedom, they maintain their right to criticize and seek revision. They determine the amount and character of the work they do outside their institution with due regard to their paramount responsibilities within it. When considering the interruption or termination of their service, they recognize the effect of their decision upon the program of the institution and give due notice of their intentions.

V. As members of their community, faculty members have the rights and obligations of any citizen. They measure the urgency of these obligations in the light of their responsibilities to their subject, to their students, to their profession and to their institution. When they speak or act as private persons, they avoid creating the impression that they speak or act for their college or university. As citizens engaged in a profession that depends upon freedom for its health and integrity, faculty members have a particular obligation to promote conditions of free inquiry and to further public understanding of academic freedom.

Classified Code of Ethics

Preamble:

We, the members of the Classified Senate of Sacramento City College, in cooperation with faculty and administrators, provide students with the support needed to achieve an excellent educational experience. Sacramento City College is an egalitarian institution committed to the principle that "higher education will be available to every person who can benefit." Our purpose is to assist directly or indirectly with the needs of students and be sensitive to creating an environment conducive to this objective.

To reach this goal, the following Code of Ethics has been adopted by the Classified Senate on behalf of all classified staff. We are guided by the maxim: SERVICE, PRIDE, PROFESSIONALISM.

Code of Ethics

1. Devote time, thought and study to duties and responsibilities so that, as a Sacramento City College employee, we may render effective and credible service.

2. Base our decisions upon all available facts in each situation; vote our honest conviction in every case, unswayed by biases of any kind; abide by and uphold the majority decision of the Senate.

3. Welcome and encourage the active cooperation of the students, staff, faculty, administrators and public with respect to establishing policy on current and future college operations.

4. Provide equal treatment and respect to all college community members and take pride in extending our professional expertise within our designated field to the college community.

5. Recognize that unwelcome attention toward any member of the campus community is not permissible and shall not be condoned.

6. Encourage involvement in the college community by participating in campus committees, activities, and other affiliations.

7. Maintain integrity in all aspects of service.

8. Promote an exchange of information and communication with employee organizations, Associated Students, Academic Senate and administration.

9. Promote the institution's mission of Working Together, Pursuing Excellence, and Inspiring Achievement.

Management Code of Ethics

The Management Staff at Sacramento City College join the faculty, staff, student, and neighboring communities of the college in working together, pursuing excellence, and inspiring achievement.

In support of the college and its mission, we pledge to provide support, direction, and leadership to:

- Conduct ourselves and relate with staff, faculty, colleagues, and students in a professional manner which is open and free of unlawful discrimination and harassment of any kind.
- Invite participation and promote cooperation, trust, problem solving and positive personal relationships.
- Assume accountability for the development, implementation, and outcomes of the decisions made by ourselves, the college, and the District.
- Utilize objective data and criteria and balance fiscal, contractual, and legislative interests to make fair decisions with the ultimate goal of promoting student learning and success.

Student Support Services

Counseling and Student Success

Sacramento City College Counseling and Student Success Department offers comprehensive professional counseling services for community college students. Academic counseling is available to assist students in clarifying their educational goals. Students and counselors work together to create an educational plan for obtaining a certificate, associate degree, and/or transfer. Career counseling can help students to explore their personal values, aptitudes and interests, and to identify a major that leads to a fulfilling career. SCC counselors provide personal counseling to help students with life issues that may interfere with academic success. Crisis intervention services are available to students who are experiencing acute emotional distress and require immediate attention.

As part of the matriculation process, all first-time college students are encouraged to meet with a counselor soon after being accepted to the college, and to meet with their counselor every semester thereafter to discuss academic and personal progress, and to update plans. Counselors refer students to other services, including many that may be provided in the Counseling and Student Success Department: new student orientation (on-line and in-person), online advising, and special programs for student retention. Counselors also teach Human Career Development courses that are designed to build skills that lead to academic and life success.

Services are available Monday through Thursday 7:30 a.m. to 8:00 p.m., Friday 7:30 a.m. to 5:00 p.m., and on a limited basis on weekends. The Counseling Center is located on the first floor of Rodda North, Room 147. Call (916) 558-2204 for more information. Counseling services are also available at the SCC Outreach Centers.

Other programs located in the Counseling Center include Health Services, Transfer Center, International Student Center, Job Services, Career Center, Cooperative Work Experience and Internship Program, and the Articulation Office.

Orientation

General information and enrollment sessions for all new students are held on campus prior to the start of classes each semester. All first-time students are encouraged to participate in these sessions that include information on SCC programs, course selection, enrollment procedures, and information essential to college success. The Orientation Office's phone number is (916) 558-2145 for reserving a space at Orientation or for more information.

Online Orientation

New students who are unable to take advantage of SCC's traditional orientation sessions may participate in an online orientation, then follow-up with an appointment with an SCC Counselor. The Student Guide is also available online. Both the Online Orientation and the Student Guide may be accessed through the SCC Website at www.scc.losrios.edu.

eServices for Online Services

Computers for student use are available in Business Building 153, Monday through Friday, 8:30 a.m. to 2:30 p.m. (check the Schedule of Classes for dates this center will not be available). A staff person is on-site to assist you with on-line orientation, application for admission, financial aid applications, updating supplemental information, obtaining assessments scores, viewing your academic history and/or schedule, as well as enrolling into classes.

Computers are also available in the Rodda North hallway at the Admissions and Records windows Monday through Thursday, 7:30 a.m. to 8:00 p.m., Friday, 7:30 a.m. to 5:00 p.m.

Outreach Program

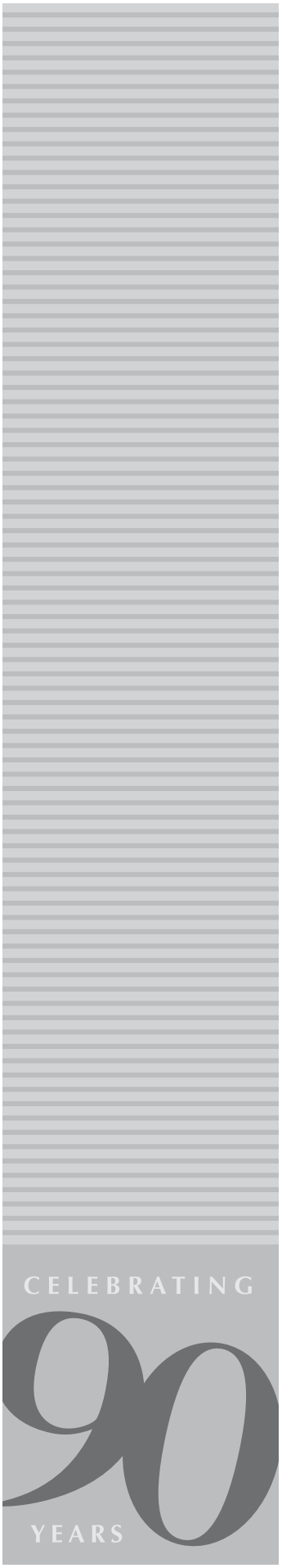
The Matriculation and Student Development Division is responsible for outreach and recruitment services targeting area high schools, community agencies, and neighborhood organizations.

Outreach and recruitment staff inform students, parents, and the community about instructional programs, student support services, admission and enrollment processes, and the campus and student life environment at Sacramento City College.

For more information regarding High School Outreach, please call (916) 558-2200 or Community Outreach and CalWORKs at (916) 558-2771.

Campus Tours

The Information and Orientation Office also coordinates campus tours. Tours can be scheduled for individuals or for large groups. Contact the Information and Orientation Office by calling (916) 558-2390 for additional information or to schedule a tour.



Summer Bridge

New first-time students can prepare for the transition to college by participating in the Summer Bridge Program (designed for EOPS eligible students). The program is six weeks long, Monday-Thursday and consists of transition classes, field trips, and other activities. Some of the benefits include free books, enrollment fees, parking, lunch, and job opportunities. Contact scceops@scc.losrios.edu for further information and an application.

Assessment

Since reading, writing, and mathematics skills are essential for learning and understanding all subjects, it is helpful for students to know their level of performance in these areas. Assessment in these subjects will show educational strengths and needs and can provide useful information for planning a course of study at Sacramento City College. Assessment is not conducted to keep a student out of college or specific classes.

Your assessment results, along with your high school record, educational and employment experiences, current work schedule, and motivational level, can be used to help plan your classes. Your Sacramento City College counselor can provide interpretation of test results and work with you to prepare a Student Educational Plan. The Assessment Center can provide information about the types of assessment available and its testing schedule.

Call (916) 558-2540 or (916) 558-2541 for information or drop by the Student Services Building Room 121.

Senior Assessment for College (SAC)

During the spring semester, the Assessment Center Staff conducts the SAC program in local high schools. High school seniors are invited to complete basic skills assessment on site at their own campus. They can then participate in orientation sessions and are offered priority enrollment at SCC. This highly successful program has been in existence since 1986.

Transfer Center

The Transfer Center assists students in transferring to four-year colleges and universities. The Center maintains current college and university catalogs, admissions and major course requirements, applications, and resource materials. In addition to its many transfer activities, the Transfer Center coordinates the annual Transfer Day in the Fall and Transfer Night in the Spring, university representative appointments and workshops, the Transfer Admission Agreement Program, and the transfer class, HCD 318, Strategies for Successful Transfer: Making It Happen.

Appointments to meet with college representatives and application/information workshops can be made in the Transfer Center. Representatives from California State University, Sacramento and University of California, Davis are available to meet with students in the Transfer Center on a weekly basis. In addition, university representatives from other four-year institutions are available each semester.

The Transfer Center is located in the Counseling Center, Rodda North 147. The Center may be reached by calling (916) 558-2181 or drop by the office.

Disability Resource Center

The Disability Resource Center (DRC) serves students with documented physical, learning, communication, developmental, and psychological disabilities, acquired brain injuries, and other impairments. Students with disabilities who request reasonable accommodations are required to provide verification of their disability to the DRC.

A variety of academic support services are available which provide students with disabilities the opportunity to participate fully in all aspects of college programs and activities through appropriate and reasonable accommodations. Services include the following:

Alternate media format materials
Assistive computer technology
Counseling
Equipment loan
Exam accommodations/proctoring
Interpreters (Sign Language)
Learning disability assessment & evaluation
Learning strategies instruction
Mobility/Lab Assistance
Notetakers
Priority registration
Referral to other campus and community resources
Real-time captioning

In December 1994, the college dedicated its Center for Physical Excellence. Located in the former lobby of the Hoos Pool building, the Center is a specialized facility designed to meet the unique need of students with physical challenges. Equipment, staff, and adaptive physical education courses are available to assist students in improving and enhancing their physical skills to facilitate education and personal development. Contact the Physical Education, Health and Athletics Division at (916) 558-2425 for more information.

The Disability Resource Center is located in two campus locations. Students who require information should begin in the Student Services Building for intake, counseling, and service coordination. The telephone numbers are (916) 558-2087 (voice), 558-2693 (TTY), and 650-2781 (FAX). Office hours are Monday through Friday, 8:00 a.m. to 4:30 p.m., with evening hours by appointment. The other DRC location in Auditorium 2 offers LD Assessment, the Assistive Technology Lab, and exam proctoring. The telephone numbers are (916) 558-2283 (voice), and 558-2670 (FAX).

Students seeking Educational Accommodations who do not wish to be referred to the SCC Campus Disability Resource Center will need to contact the SCC Campus Equity Officer, Julia Jolly, Associate Vice President of Instruction in Rodda North, Room 257, at (916) 558-2386 for referral to appropriate services.

Alternative Publication Formats

This publication is available in alternate formats (large print, Braille, MP3, or e-text). Please call (916) 558-2087 (voice) or (916) 558-2693 (TDD).

WorkAbility III

The WorkAbility III program provides students with disabilities with employment services. To qualify for WorkAbility services, student must be a current consumer of the California Department of Rehabilitation, and have a physical, mental, emotional, communication or learning disability. Services include career counseling, career development classes, resume and interview practice, and job placement assistance.

To get more information about WorkAbility, or to schedule an appointment, call us at (916) 558-2590 or check our web site at: www.scc.losrios.edu/~onestop/workability.

Cultural Awareness Center (CAC)

The Cultural Awareness Center's goal is to promote intercultural understanding and education through programs and traditional cultural celebrations that reflect the diversity of Sacramento City College and its urban community.

The CAC celebrates ethnic cultural traditions through dance, music, art, poetry, and storytelling. In addition, the CAC sponsors open forums, panel discussions, and speakers who often reflect the ethnic education, age, and gender differences on our campus, as well as the differences of ideas and opinions. These differences allow us to see things from many different perspectives promoting healthy discussion and debate. The Cultural Awareness Center is a safe place to celebrate what makes us different; to learn to appreciate the differences in others; it is an educational experience that helps you to become comfortable learning, living, and working in a diverse world. For more information, please call (916) 558-2155 or visit our website at www.scc.losrios.edu.

Career Center

Located in Rodda North, Room 147, the Career Center provides information and support services for students interested in identifying and planning their careers. Written and computerized assessments are available to evaluate personality, abilities, interests, skills, and values. Books, computer programs, handouts, and Internet access are available for those interested in researching their chosen careers. Workshops are offered throughout the year on many career-related topics. There is an annual career fair where more than 100 employers attend, providing students with the opportunity to pursue current employment, internships and information interviews. Career Center staff members are available to work with groups and individuals using the various resources in the Center. Services and resources are available to all students and the general public. Accommodations can be made for students with disabilities who wish to use our services. For more information, please call (916) 558-2384.

Job Services

Student employment services are coordinated through the Job Services office located in the Counseling Center. The office provides on campus job services and maintains job listings and referrals for off campus employment. Students contact off campus employers directly. Job announcements and descriptions are posted on the job board on the first floor of Rodda North, outside the Counseling Center. Additional job listings are available for viewing in job binders. Recruiters are on campus throughout the year to give job/career information or to interview for specific jobs. Students can receive assistance with resumes, interview skills, and job search strategies individually or through workshops. All services are available and accessible to all students. For students with disabilities who need assistance who use our services, we work in cooperation with the Disability Resource Center and Workability, a joint program between the Department of Rehabilitation and Sacramento City College. Job listings can also be accessed through the Los Rios Job Connections, www.collegecentral.com/society. This website service will allow employers to post their jobs and search for the right candidate and students can search the job database for the position that meets their need. For general information, call (916) 558-2676.

Health Services

The Health Office is located in the Counseling Center in Rodda North. The goal of Health Services is to assist the campus community in the maintenance of optimal health. Public Health Nurses are available to assist the college community in matters of health, drug and alcohol abuse, family planning, prevention of communicable diseases, identification of special health problems, and to offer supportive help in situations of physical and emotional stress. Services include health assessment and counseling (with appropriate referral to community resources); vision, hearing, and blood pressure screening; tuberculosis testing; first aid and emergency care for illnesses and accidents occurring on campus. The Health Office is not clinically equipped, therefore, no medical care or treatment can be given. All consultations are confidential.

Students are not covered by the district or the college for medical or accident insurance. Information and applications for the student accident and illness insurance are available in the Health Office.

Dental Health Clinics

The Dental Clinic is located in Rodda South 135. Students and community members may make appointments with dental hygiene students for preventive dental hygiene services. Services include cleaning and polishing teeth, fluoride application, and oral hygiene instructions. Fees for these services are $18.00 for the first appointment and $7.00 for additional appointments. Sealants, which prevent tooth decay, cost $7.00 per tooth. With a written request from a dentist, dental x-rays can be taken by either dental assisting or dental hygiene students. The fee for x-rays ranges from $10.00 to $20.00. For an appointment, call (916) 558-2303.

International Student Center

The International Student Center advisor and staff provide support services to SCC students approved for international F-1/F-2 status. International students are defined as any citizen of a country other than the United States who have or will need "school authorization, under Federal laws, to enroll as a non-immigrant student."

The staff is available to assist students with the completion of the International Admissions Packet, review all required documents, orientation process, provide information on services, and answer questions. In addition, the Center serves as a valuable resource for students regarding their student immigration status, federal regulations, and educational responsibilities.

Students are advised to:

*Request a SCC International Admissions Packet as soon as possible by e-mail at the following address: http://web.scc.losrios.edu/international

*Maintain full-time status and complete a minimum of 12 units or more each semester (W=withdrawals do not count as part of the 12 units)

*Notify the Center of address changes within 10 days of moving

*Notify SCC International Student Center and Admission and Records Office of address and educational major changes

*Maintain proof of Student Health and Medical Insurance coverage at SCC Health Office

*Have an original copy of college transcripts (translated into English) sent from all institutions attended to Sacramento City College, Admissions and Records Office

*Meet regularly with instructors and International counselor(s) whenever any academic difficulties arise

Approved F-1/F-2 students are required to report to the International Student Center not later than two weeks before the first day of instruction. Students must bring their most recent original entry documents (I-20s, I-94, passport with American Consulate visa page) and current copies of all college transcripts translated into English.

Every effort is made to ease the transition to a new culture, educational system, and college life. The International Coordinator-Counselor encourages students to meet often for career, personal and educational advising, to complete an educational plan, and to address questions and concerns regarding student status.

The International Student Center is located in the Counseling Center, Rodda North 118. To schedule an appointment, please call (916) 558-2486.

Veterans Affairs

The Veterans Affairs Office is located in Rodda North 159 and is available to assist veterans, spouses, and children of disabled or deceased veterans who may be eligible for federal and/or state educational benefits.

New students should contact this office at least two months prior to the start of the semester to initiate required paperwork.

All tuition, books and miscellaneous fees are paid by the student and not the VA. Recipients of such payments are advised to anticipate a delay of approximately two months before receiving the first payment.

Disabled veterans who qualify for educational benefits as disabled veterans should contact their VA Rehabilitation Counselor prior to enrolling.

Office hours are Monday through Friday, 8:30 a.m. to 4:45 p.m. For further information contact the office at sccveterans@scc.losrios.edu or (916) 558-2591.

Child Development Center

The college operates child development centers serving pre-school and infant-toddlers in the Berneice Clayton Child Development Center. The programs provide care and educational programs for children ages six months to first grade of students enrolled at Sacramento City College. There is an advisory committee to the program, representing parents and college staff. Parents who wish to participate in the Pre-School Program may enroll in Early Childhood Education 106 to receive credit for laboratory hours. Parents are also encouraged to enroll in the one-unit course ECE 104, Parenting Workshop.

The center is open Monday through Thursday, 7:30 a.m. - 5:30 p.m. and Friday, 7:30 a.m. - 4:00 p.m.

The Center also serves as laboratories for students majoring in Early Childhood Education. A trained staff directs the children's programs that include many activities promoting optimum physical, social, emotional, and intellectual development. In addition, breakfast, a hot lunch, snacks, health care, field trips and many activities encouraging language development are provided.

For additional information call (916) 558-2542.

Library Services

The SCC Library - located in the Learning Resource Center on the second and third floors - is one of the largest and most comprehensive community college libraries in California. The second floor contains reference services and the reference book collection, circulation services and the reserve book collection, research computers, the print periodical collection, and group study rooms. The third floor houses the Library's circulating book collection of over 70,000 volumes as well as an expansive quiet study environment that is flooded with natural light.

Librarians are available to guide students through the research process at their own pace and according to their own needs whenever the library is open. Students are also encouraged to sign up for non-credit orientations to library services and resources. These orientations are designed to make course work easier and more rewarding. The Library also offers a variety of credit courses that teach library research skills and the use of the Internet for research. Selected credit courses are available also online. Library courses are listed in the SCC course catalog and the schedule of classes in the *Library* and *Library and Information Technology* sections.

Library resources include the LOIS online catalog that identifies books, periodicals, and non-print materials available at SCC and in the other Los Rios Community College District libraries. In addition to the print book and periodical collections, the Library provides online access to the full-text of thousands of magazines, journals, and newspapers, as well as to full-text literary criticism, biography, business information, statistics, international affairs, and current events through databases and information resources tools. These electronic resources are available to the SCC community on the Web from any off-campus location simply by visiting the Library's web site at http://www.scc.losrios.edu/~library.

Librarians also help students identify reliable web sites and information in order to expand their research to the Internet. Through the Library's interlibrary loan service, staff and students can borrow books and articles from libraries throughout the district and region and have them delivered to SCC.

The Library is equipped with fee-based photocopiers and laser printers, a color printer, scanners, microform reader-printers, and computer stations with accessibility software.

Instructional Media Center

The Instructional Media Center - located in the Learning Resource Center on the first floor - houses the library's non-print collections: videos, DVDs, audiotapes, and CD-ROM software are available for use at viewing stations, tape machines or on computers. Media materials used by faculty and placed on reserve for student use are kept in the IMC. An open-access computer lab is available in this area and provides Internet access as well as basic personal productivity software (word processing, spreadsheet, desktop publishing, etc.). Instructional assistance is available to all IMC users.

A second open-access computer lab is located in B 153 (Business Building) and provides additional PC computers for Internet access as well as basic personal productivity software (word processing,

spreadsheet, desktop publishing, etc.). Instructional assistance is also available to users of this lab.

Learning Skills and Tutoring Program

The Learning Skills and Tutoring Program provides learning opportunities and skills assistance to students who would like to be effective and successful learners. In the Learning Skills and Tutoring Center - located on the first floor of the Learning Resource Center - students will find peer tutoring; online resources; Beacon PAL collaborative learning groups; multimedia instructional materials; and various learning assistance and study skills guides. These resources and services are available days, evenings and Saturdays. The program also recruits, hires and trains tutors who work in the Center and throughout the campus at various specialized tutoring labs (Athletic Study Skills, Business Division Computer, Communication Training, English, Math, ESL, Writing, Mac/CAD and various occupational labs).

In addition, the Learning Skills and Tutoring Coordinators offer several courses. Individualized instruction designed to help students acquire, improve or refresh basic reading, writing, or arithmetic skills is offered as HSER 92, Prerequisite Skills Assistance. The course content is tailored to the individual student's needs and abilities. All enrolled students consult with the Learning Skills and Tutoring Coordinators to determine the curriculum to be mastered. Instruction is offered via computer-assisted instruction in the Learning Skills Center. Students may earn .5-4 units in this course.

All students can benefit from HCD 360, Academic Skills. This is offered as a modularized, independent study course that is designed for students who want to study independently to improve their academic skills. The course is also available online. Students have an opportunity to assess their learning needs in order to develop and improve study techniques for textbook reading, note taking and test taking. In addition, students will learn how to apply time management, concentration, memory improvement and listening strategies. This is an excellent course for anyone interested in establishing a strong academic skills foundation or in brushing up on his or her study skills.

The availability of peer tutoring is an important piece in SCC's effort to support student success. SCC knows that good training shapes good tutors. We have two tutor training courses, HSER 370, Introduction to Tutor Training, which offers instruction in individual peer tutoring, and HSER 373, Introduction to Group Peer Tutoring, which offers instruction on becoming a group peer tutor; both are one-unit courses. For more information, stop by and talk with one of the Learning Skills and Tutoring Coordinators.

Students are invited to explore the Center and its resources, and to discuss their individual learning needs or concerns with the Learning Skills and Tutoring Coordinators. More information can also be found at the Program website: http://web.scc.losrios.edu/tutoring.

Distance Education Program

Distance Education (DE) offers learning opportunities outside of classroom, usually from home or a coveniently located off-campus site. DE allows students to earn college credits with fewer on-campus hours.

Our DE courses are designed to fit busy schedules and advance academic goals with a challenging educational experience. SCC is committed to giving our DE students the same individual support, academic standards, and experienced faculty found in our classrooms - plus the freedom to choose the learning mode: hybrid, interactive television, online, or telecourse.

All of our DE courses are approved for presentation through each DE mode by the Sacramento City College Curriculum Committee to ensure equivalent learning experience and academic rigor.

For complete information on the Distance Education Program, visit the DE website at http://web.scc.losrios.edu/de.

Open-Access Computer Labs

To support student mastery of new information technologies, encourage student integration of computer skills and awareness into their learning processes and to make computer resources and Internet access available to any student, SCC provides two open-access computer labs: an open-access computer lab with PC computers is available in the Instructional Media Center (Learning Resource Center) that provides Internet access as well as basic personal productivity software (word processing, spreadsheet, desktop publishing, etc.). Instructional assistance is available to all IMC users. A second open-access computer lab is located in B 153 (Business Building) and provides additional PC computers for Internet access as well as basic personal productivity software (word processing, spreadsheet, desktop publishing, etc.). Instructional assistance and guidance is also available in this lab.

Learning Communities (Interdisciplinary Studies)

A Learning Community is two or more courses linked together by one, or more than one, of the following: a common theme, shared students, shared content, and/or a team of instructors. It's sometimes called interdisciplinary learning or integrated classes. Students like Learning Communities because they can be a part of a group that learns together. They interact more with their fellow students and the faculty, and they learn to understand how subject matter interrelates. The number of Learning Communities at SCC varies from semester to semester, so look for the Interdisciplinary Studies page in the Schedule of Classes.

Service Learning Program

Participation in campus and community volunteer projects - as a part of regular course work - serves to make learning more direct and relevant, builds students' leadership and organizational skills, and promotes civic engagement and community building. SCC is incorporating service learning into more and more courses, and is creating campus and community partnerships to enhance student learning. Service Learning projects have included web and brochure design for community agencies, partnerships with social services, school-aged mentoring and transitional housing programs. For a current list of courses connected with the Service Learning Program, check the Schedule of Classes or visit the Service Learning website at www.scc.losrios.edu/ or call (916) 650-2918.

Learning Resource Center

Learning Resource Center (LRC) is a resource for student learning and intellectual exploration. It is a place where students can find space for quiet study as well as group work and collaboration, and room to plan, sort, organize and work on projects and reports.

The LRC houses the Library, Instructional Media Center, Learning Skills and Tutoring, Distance Education, as well as services for faculty and staff such as Instructional Development and Media Production and Services. The LRC provides extensive collections of books, periodicals, videos, DVDs, films, microforms, software, and electronic databases to support the educational needs of SCC students and classroom instruction. The library catalog and some electronic resources are also available from off-campus via the Web. Library instruction in the research process is offered via individualized assistance, library orientations and credit courses. The Library also offers a Library and Information Technology certificate program that prepares students to work in a library as paraprofessionals.

In addition, the LRC provides access to electronic classrooms, open access computer labs, ADA computer stations, and laptop computer ports throughout the building.

The Learning Skills and Tutoring program focuses on individual learning needs of students and supports them in becoming effective and successful learners. Students can also take advantage of alternative instructional delivery systems including computer-assisted instruction and distance education.

Librarians, faculty coordinators, paraprofessionals and student support staff assist students at every stage in the study and research processes, helping them build the academic skills they need to succeed at SCC as well as lifelong learning and information competency skills.

Other Services

College Store

The College Store, conveniently located on campus on the east side of the Lusk Aeronautical building, carries a complete stock of all textbooks used in the classes at the college, as well as paper and supplies of all kinds. The Board of Trustees of the Los Rios Community College District exercises supervisory control over the College Store and provides for an annual audit. The President of the College is empowered to direct the activities of the store. Visit our web site for hours of operation and other services: www.scc.losrios.edu/bookstore.

Cafeteria-Snack Bar - City Cafe

A wide range of food services is available to student and staff members through the City Cafe. There are also a number of nutrition (vending) centers on campus.

Los Rios Police Department (LRPD)

The LRPD is located on the Library Road and is accessible on a 24-hour basis, (916) 558-2365. In addition to security, this office assists in cases of emergencies, parking, and lost/found property. A courtesy shuttle bus operates during the day and evening hours. Special emergency telephones are located around the campus and can be used for quick access to police services.

Student Parking at SCC

All students are to park in white lined spaces which are primarily located around Hughes Stadium. Students are encouraged to park on campus as the lots are patrolled regularly. Motorcycle parking is also available in designated areas.

Parking Permits

All parking on campus requires a parking permit. Students can purchase a semester permit at the Business Office for $30. This is the most cost effective pass if you attend school two or more days per week. The semester permit may either be stuck on the inside of the front windshield, driver's side, lower left corner, or can be hung from the rear view mirror. These are the only acceptable options for the display of a semester pass. Daily permits may be purchased from any of the parking machines located throughout the student parking lots and should be placed visibly on the dash. All permits must be visible in order to be valid. Daily permits that are numerically stamped from other Los Rios Community College District campuses (ARC, CRC, Folsom) are not accepted at SCC. Semester permits from those campuses are accepted.

Disabled (Handicapped) Parking

Parking for people with disabilities is available throughout the campus. All parking spaces are clearly marked with standard blue color and signage. Parking in these spaces is strictly enforced. A blue handicapped placard or handicapped license plate is required and MUST be visible when occupying a handicapped space on campus. To utilize a handicapped placard to park in a white/student space or yellow/staff space on campus, the applicable student or staff permit must be visible along with the handicapped placard/plate. (LRCCD Regulation 2252 and Ed Code 54100). Temporary disabled permits are available at the College Health Office for those with temporary injuries. Medical verification must be provided.

Enforcement

Permit Parking is enforced Monday through Thursday from 7:00 a.m. to 10:00 p.m. and Friday from 7:00 a.m. to 5:00 p.m. All red zones (no parking), green zones (limited time parking), and blue zones (handicapped) are enforced 24 hours a day, 365 days of the year.

Shuttle Service

Shuttles run from the student lots to the campus Monday through Thursday from 7:00 a.m. to 10:00 p.m. and on Fridays from 7:00 a.m. to 6:00 p.m. This shuttle is only in effect if ridership dictates the need for shuttle service.

Liability

The college and the district are not responsible for any vehicle damaged, stolen, vandalized, or burgled.

Bicycle Lockers and Racks

Approximately 500 spaces, including nearly 40 bicycle lockers, are available on campus. Bicycle lockers may be rented at the Business Office across from Admissions in Rodda North. Caltrans Bicycle route maps are available at the transportation information display (Rodda North). All students are encouraged to walk, not ride, their bicycles in the quad area.

Motorcycles

Motorcycle parking spaces are available throughout the campus in designated spaces. Parking in these spaces requires a permit which can be obtained through the College Business Office. As with any motor vehicle, the motorcycle must be properly registered with the California DMV to operate on the campus.

RT Bus and Light Rail/Student Access Card

Regional Transit has expanded bus and light rail service, making it even easier to take public transportation to Sacramento City College. Students may also park at any of the park-and-ride stations along the line and take light rail directly to the City College station just east of Hughes Stadium. Students approved a Universal Transit Pass fee that allows students to use all public transit bus and light rail systems in Sacramento, Yolo, Folsom, El Dorado, and Elk Grove at a greatly reduced rate. Your Student Access card is your transit pass and it is good seven days a week from August 1 through December 31 and from January 1 through May 31. This is an incredible bargain. To find out how to get your Student Access Card, please go to www.losrios.edu and click on "Student Access Card." Bus and light rail route information is available on the first floor of Rodda North, 321-BUSS (2877), TDD 483-HEAR (4327), www.sacrt.com, and yolobus.com.

City of Sacramento Car Pool Spaces on 12th Avenue.

The City of Sacramento controls permit parking in about 30 spaces along the north side of the college on 12th Avenue. The permits are limited and require application to the city. Additional information may be obtained by calling 808-5354 or visiting their offices at 1023 J Street, room 202.

Student Leadership and Development Rideshare Bulletin Board

The Student Leadership and Development office keeps a rideshare bulletin board for those who wish to post notices to help them find riders or rides. The rideshare bulletin board is located on the first floor of the South Gym. The college assumes no responsibility for rides or riders other than maintaining the rideshare board. Call (916) 558-2381 for more information.

Financial Assistance

Administration

The Financial Aid Office administers work-study, student loans and grants to assist eligible students with the cost of education. Inquiries may be directed to the Financial Aid Office, Rodda North 167, 916-558-2501 or contact us at sccfinaidinfo@scc.losrios.edu.

Financial Aid

See http://www.scc.losrios.edu/~finaid

Sacramento City College participates in a number of programs to assist low and middle income students. To receive financial aid, a student must enroll in an eligible program that leads to a degree or certificate. Please note that a few certificate programs do not meet the minimum qualifications to be an eligible program. Contact the Financial Aid Office for details. Students can apply by completing the Free Application For Federal Student Aid (FAFSA). Applications are available in January. A priority deadline of March 1, 2006 has been set to ensure early processing of financial aid applications for the 2006-2007 school year. However, applications are accepted throughout the academic year. All awards are subject to the annual allocation of funds from the federal and state government. All students are encouraged to contact the Financial Aid Office for further information.

Enrollment Fee Waiver

California community college enrollment fees are determined by the state Legislature and may increase in the fall. But we have some great news for you. Each year more than half of our students qualify for a Board of Governors Enrollment Fee Waiver (BOGW), and even more may be eligible. The BOGW pays enrollment fees for summer, fall and spring semesters, and only one application per year is required. Applicants must be California residents. For your convenience, we've included an application in this schedule of classes. For more information, please visit the Financial Aid Office in Rodda North 167 or our Website at www.scc.losrios.edu.

Federal Pell Grant Program (FPELL)

The Pell Grant is a need-based grant program sponsored by the Federal government. Information may be obtained in the Financial Aid Office. Priority application deadline is March 1, 2006 for the 2006-2007 school year.

California Student Aid Commission Grants (CAL GRANTS)

The California Student Aid Commission offers Cal Grants each year. The GPA Verification Form, required to apply for Cal Grants, is available in the Financial Aid Office. The FAFSA and completed GPA Verification Form must be postmarked by March 1, 2006 for the 2006-2007 school year. Further information on Cal Grants may be obtained in the Financial Aid Office, Rodda North 167.

Federal Work Study Program (FWS)

Employment is offered on and off campus to qualified financial aid applicants with the purpose to give meaningful work experience to students with financial need. Portions of FWS funds are available to place eligible students with agencies providing community services. Eligibility is determined by completing the FAFSA process. Priority application deadline is March 1, 2006 for the 2006-2007 school year.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is for undergraduate students with exceptional financial need and gives priority to students with Pell eligibility. Eligibility is determined by completing the FAFSA process. Priority application deadline is March 1, 2006 for the 2006-2007 school year.

Federal Stafford Student Loans - Subsidized and Unsubsidized

Low-interest loans are available through lending institutions and are either subsidized or unsubsidized. A subsidized loan is awarded on the basis of financial need and the federal government pays the interest on the loan during authorized periods of deferment. An unsubsidized student loan is not awarded on the basis of need and the interest is charged from the time the loan is disbursed. Eligibility for both loans is determined by first completing the FAFSA process and then attending a Loan Counseling and Debt Management Workshop.

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Satisfactory Progress Policy

To be eligible to receive federal student aid, you must maintain satisfactory academic progress toward a degree or certificate. In addition, by the end of the second academic year, the student must, in general, 1) have a "C" average or its equivalent, or 2) have an academic standing consistent with the requirement for graduation from the program. Congress and the Department of Education are concerned that funds are awarded to students who are making satisfactory progress toward their educational objective. Therefore, the Financial Aid Office is required to monitor this progress and deny aid to any student who fails to meet satisfactory progress policies. Please check with the Financial Aid Office for specific details.

Ability To Benefit

Ability to benefit applies to students who are admitted to college but who do not have a high school diploma or the equivalent. To receive Federal student aid, a student admitted on the basis of ability to benefit must pass a Department of Education approved test that measures the student's ability to complete the course of study. The Ability to Benefit test is administered by the SCC Assessment Center.

Basis for Denial of Financial Aid

Financial Aid may be denied for the following reasons:

1. Defaulting on a Title IV educational loan.
2. Failing to meet the financial aid satisfactory progress standards of Sacramento City College.
3. Completion of degree, certificate program or 72 units, whichever occurs first. (All degrees, certificates and units earned at all colleges, universities and technical schools are reviewed.)
4. Owing an overpayment or refund on any Title IV educational grant.
5. Falsifying information that affects the determination of eligibility for aid.

Financial need is determined according to the U. S. Office of Education approved Needs Analysis. Student expenses are confined largely to tuition/fees, living costs, books, transportation and incidentals. (See Enrollment.) The following figures are maximum allowances and may change due to pending federal regulations.

The following budget is the approximate cost of attending Sacramento City College during the 2006-2007 academic year:

Room and Board:	Lives at home	$3168
	Lives away from home	$8172
Personal Expenses:	All Students	$1204
Transportation:	Lives at home	$828
	Lives away from home	$936
Books and Supplies:	All students	$1224
Enrollment fees (average):	All Students	$780
Total:	Lives at home	$6964
	Lives away from home	$11,076

Maintenance Allowance

The Los Rios Community College District will pay a maintenance allowance of $4.00 per day of scheduled attendance for the period in which the student is enrolled full time. Payment will be issued to the parent or guardian of minor students, and directly to adult students and to married minors who reside in California more than sixty (60) miles from the nearest public community college campus. Application for maintenance allowance is filed in the office of Admission and Records. Additional information may be obtained from the office of the Dean of Admissions/Records.

Extended Opportunity Program and Services (EOP&S)

EOP&S is a student support program for educationally and economically disadvantaged students, funded by the State of California and the Los Rios Community College District. It is designed to provide opportunities in higher education for students with academic potential who, historically, would have not attended college.

EOP&S provides support services: EOP&S orientation, counseling, priority registration, financial aid processing, monitoring academic progress, tutors, book vouchers, university admission application fee waivers, cultural awareness activities, workshops and award ceremony.

The EOPS Program also has a CARE Program (Cooperative Agencies Resources for Education). It is designed to assist EOPS students who are single head of household, have at least one child five years old or under, currently receiving TANF (Temporary Assistance for Needy Families) and have for at least one continuous year, and will pursue an educational program which leads to a certificate, degree or transfer objective.

Applications are available April 1 for the Fall semester and October 1 for the Spring semester. For further information, contact the EOPS Office, Rodda North 178, call (916) 558-2403 or contact us at scceops@scc.losrios.edu.

CalWORKs Program

CalWORKs (California Work Opportunities and Responsibility to Kids) is a state funded Welfare-to-Work Program designed to help individuals on public assistance become self-sufficient. Sacramento City College's CalWORKs Program (not a program of Sacramento County) is working together with other community agencies and on-campus programs to provide comprehensive services that promote self-sufficiency and lifelong learning. The SCC CalWORKs Program includes education, training and support services, as well as employment opportunities related to the individual goal of each participant. Anyone receiving TANF (Temporary Assistance for Needy Families), formerly known as AFDC, may be eligible for services.

A student already enrolled in an undergraduate degree or certificate program at the time of entry into the Welfare-to-Work Program may have that program approved as their Welfare-to-Work activity. The program must lead to employment within the local labor market, students must maintain satisfactory progress, and it must be completed within the time limits established by Welfare-to-Work regulations.

Anyone who is thinking of enrolling in classes and has already signed their county Welfare-to-Work Agreement must speak to their county worker prior to enrollment. County workers can pro-

vide clients with Vocational Assessment and referral to short term training programs.

The Sacramento City College CalWORKs Program is located in the Student Services Building. Office Hours are Monday through Friday, 8:00 a.m. - 4:30 p.m. Orientations for participants in CalWORKs are held on Tuesdays at 5:30pm and Wednesdays at 12 noon. For further information, please call (916) 558-2331.

Sacramento City College Scholarships

Sacramento City College offers more than 200 scholarships established by SCC staff members, emeriti members, and alumni of Sacramento City College. In addition, many community businesses and individuals participate in the scholarship fund in order to support excellence for community college education, and many times, to memorialize a loved one.

Scholarship criteria may include, but not be limited to, financial need. Academic improvement, community service, and leadership skills are highly considered. Applications for SCC scholarships are available in November of each year. To qualify for scholarships, applicants must have completed a minimum of 12 units at SCC by the end of the fall semester and be enrolled in nine or more units at SCC during the spring semester. Descriptions of the requirements are included in a published listing on the SCC Web site. Workshops are held beginning in November for students wanting to familiarize themselves with the application process and increase their skills in completing a competitive application.

Requests for further information may be directed to the office of SCC Foundation, Rodda North 222, or call (916) 558-2197.

Student Leadership and Development

The Student Leadership and Development Program at Sacramento City College is designed to provide and complement learning in and out of the classroom. All students are encouraged to create and take advantage of opportunities for involvement that will enhance their academic studies and contribute to their life goals. Students participating in clubs, student government, events, and leadership workshops and classes become intimately connected with the campus community. Getting involved at SCC can help students to feel more valued on campus and achieve their goals through enhanced learning and larger support networks. Join in the fun now and enjoy the benefits for the rest of your life! For more information, visit http://www.scc.losrios.edu/~lead, call 916-558-2381, or drop by the office located in South Gym 226.

Student Leadership and Development Programs and Services

Access
Student Leadership and Development strives to provide access for all students to activities, events, and other programs and services. Please contact the Student Leadership and Development Office if we can provide an accommodation or assist in creating a more accessible campus environment.

Activities and Events
Student Leadership and Development sponsors events every year that help to develop students, leaders, and communities. Examples include, but are not limited to Welcome Day, Club Day, Leadership Day, and People's Day. In addition, a variety of training and development workshops and classes are also provided.

Bulletin Board Posting(s)
Student Leadership and Development will assist students and college organizations by approving and posting appropriate school materials on bulletin boards throughout campus.

Co-Curricular Support
Student Leadership and Development will work to support co-curricular activities and events. Students and instructors are encouraged to present ideas for consideration.

electriCITY: Sending the Power of Information to Students
This is a monthly publication of Student Leadership and Development. Submissions are due by the 15th of the month. Submissions may be edited and are not guaranteed inclusion. electriCITY is distributed via The Express (SCC's student-run newspaper) and through various offices around campus.

Housing
Student Leadership and Development maintains a listing of private residences with rooms for rent, students seeking roommates, and apartments for rent.

Housing notices are posted in a display case on the first floor of the South Gym as a free advertising service only. It is the responsibility of the student to contact prospective roommates, apartment managers or homeowners directly. The college assumes no responsibility for this off-campus housing other than providing the listing of available housing.

Student Center
The Student Center, located in the South Gym, is a place to study or visit with friends. In addition, student groups and SCC departments may reserve the facility for campus-sponsored meetings and events.

Voter Registration
Student Leadership and Development has voter registration forms available for you to vote in local, state and national elections. You need to register to vote if you have moved your residence, changed your name or party affiliation, or are voting for the first time.

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Student Organizations

Any group of students having common interests may organize a student club under rules established for student organizations. Each club must have a faculty advisor and be approved by the Student Leadership and Development Office. For more information on past and current clubs and/or how to start a new club, go to: www.scc.losrios.edu/~lead. The following is a list of some of the clubs at SCC:

American Medical Student Association

Anthropology Society

Black Student Alliance

Electronics Student Association

Field Ecology Group

Graphic Communication

Honors Club

Indigenous Pride

Inter-Varsity Christian Fellowship

Juggling Club

Latter Day Saint Student Association

Le Club Francais

M.E.Ch.A

Muslim Student Association

Pagan Club

Physics Club

Photography Club

Psychology Club

QSA

The Future Teacher's Club

Sac City Outdoors Club

SHEP

SMEC

Spanish Club

Studies in the New Testament

Women's Alliance

Yoga & Meditation Club

Associated Student Government (ASG)

Associated Student Government (ASG) is the representative body for the Associated Students of Sacramento City College (ASSCC). Student government consists of 25 positions, 15 of which are general Student Senators. Officers may be elected or appointed to the positions and elections are held every spring.

The purpose of student government is to represent and advocate on behalf of the student body. The ASG also encourages student participation in the governance of the college, a concept called participatory decision making. Students are invited to become involved in campus-wide development and decision-making processes by joining standing committees such as:

- Budget
- Campus Development
- Campus Safety
- Curriculum
- Equity
- Honors and Awards
- Learning Resources
- Matriculation
- Information Technology
- Planning, Research and Institutional Effectiveness
- Student Equity

Appointments of students to these committees is by application through the ASG office. A student interested in serving on campus-wide committees does not have to be a member of ASG.

Membership in ASG is open to any SCC student, registered in at least six (6) units and maintaining a minimum GPA of 2.0 to 2.5 depending on the office.

The ASG also staffs several of its own standing committees in the areas of legislative affairs, social activities, public relations, and ad-hoc committees as the need arises.

Involvement in student government provides students the opportunity to learn and apply new skills, develop friendships, and have fun. All students are welcome.

College Standing Committees

The goal of the Sacramento City College Standing Committee system is effective and efficient governance. Standing Committee membership is open to student, faculty, classified staff, and administrators. Appointment of student members to standing committees is coordinated through the Associated Students. For more information on the ASG and standing committee appointments, visit http://www.scc.losrios.edu/~lead, call 916-558-2446, or drop by the ASG office in South Gym 226.

Admission

Eligibility for Admission

Scholastic: Admission to the college, as prescribed by law, is open to: (1) any high school graduate or equivalent; and (2) any person over 18 years of age who can demonstrate ability to profit from community college education. High school students who have achieved sophomore status at 16 years of age may be admitted to a limited program upon recommendation of their school principals (see advanced education section for details). Advanced Education students should contact their school counseling office or the SCC Counseling Office, (916) 558-2204, for enrollment details.

Resident: Sacramento City College is a public college under California law. At public community colleges there are certain legal requirements pertaining to residence that must be honored. The application for enrollment includes a "Statement of Residence." Non-resident students do not automatically become California Residents by merely living in the state more than one year. State law also requires proof of intent to establish California residency. Such proof can include filing California Income Tax forms, voter registration, driver license, vehicle registration, and other acts of intent dated one year and one day prior to the start of the semester. The law also requires that the student show no contrary intent, that is, they must not have maintained residence status in their former state (i.e. driver license, taxes, car registration, etc.) The burden of proof rests with the student, not the district. The residency laws do not permit campus officials to waive any portion of the residency requirements. Students must submit a request for reclassification prior to registration.

Resident rules are as follows:

1. A student whose legal residence is in California may attend Sacramento City College. Generally the legal residence of unmarried students under the age of 19 is that of their parents.
2. California Education Code and Los Rios Community College District policy states that an applicant, regardless of age, who has not established legal residence in California will be considered a "non-resident'' and subject to a tuition fee of $151 per unit plus enrollment fee of $26 per unit.

In addition, students who are both citizens and residents of a foreign country will be assessed an additional $18 per unit fee for capital outlay purposes.

Open Courses

It is college policy that every course, course section, or class that receives state apportionment be fully open to enrollment and participation by anyone who has been admitted to the college and who meets such prerequisites as may be established pursuant to Title V of the California Code of Regulations, unless specifically exempted by statute.

Enrollment Procedures

I. **Applicants for enrollment** should submit the following documents with Admissions/ Records Office by July 16, for the Fall semester of 2006 and by December 17 for the Spring semester of 2007:

A. **Application:** An SCC Application for enrollment is available at www.scc.losrios.edu on the SCC eServices page. Online applications may be completed with assistance at computer stations in the hall outside of Admissions and Records in Rodda North or during the registration period in the Business Building, B153, 8:30 a.m. - 2:30 p.m., Monday through Friday. Applications may be obtained in person or requested by telephone or mail, but there may be a delay in enrollment if not submitted over the website. International students may apply online, but must submit additional information to the International Student Center before being admitted to SCC.

B. **Assessment:** Take the Assessment Test. Phone (916) 558-2540 or drop by Assessment Center 122 in the Student Services Building to inquire about dates and times for the English, ESL (English as a Second Language), and Math assessments. After taking the Assessment Test, take Assessment Results to an Orientation appointment or meeting with a counselor.

C. **Orientation:** Participate in Orientation. Phone (916) 558-2145 or drop by the Orientation and Information office in Rodda North 138 to make an appointment. Orientation sessions will provide information about programs and services offered at SCC. As an alternative to the traditional Orientation session, SCC offers an Online Orientation followed by an appointment with a counselor.

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D. **Counseling:** Meet with a counselor to create a one semester plan after orientation. Counselors provide information about certificates, degrees, and course selection. Extra assistance is available to students who are undecided about their goal. Online orientation participants will need to meet personally with a counselor in Rodda North 147 or a counselor at an appropriate Outreach Center. To keep your Educational Plan updated, meet with a counselor every semester.

E. **Registration:** The last step is registration for classes. Register for class online at www.scc.losrios.edu or by telephone at (916) 286-400 or long distance in California (1-800-700-4144). You must observe the appropriate priority registration dates and times.

California Resident Fees: $26.00 per unit.

Out-of-State Non-Resident Fees: $186.00 per unit ($26.00 per unit, plus $160.00 per unit, non-resident fee, total $186 per unit)

International Student Fees: $204.00 per unit ($26.00 per unit, plus $160.00 non-resident fee per unit, plus $18 international fee)

Payment of enrollment fees is due within ten days of registering for classes. You must officially drop a class to avoid being charged for it.

Enrollment Fee Waiver

California community college enrollment fees are determined by the state Legislature and may increase in the fall. But we have some great news for you. Each year more than half of our students qualify for a Board of Governors Enrollment Fee Waiver (BOGW), and even more may be eligible. The BOGW pays enrollment fees for summer, fall and spring semesters, and only one application per year is required. Applicants must be California residents. For your convenience, we've included an application in this schedule of classes. For more information, please visit the Financial Aid Office in Rodda North 167 or our Website at www.scc.losrios.edu.

II. **Readmission**—Former students of Sacramento City College returning after an absence of one or more semesters must submit an application for enrollment. Official transcripts from any institution attended since date of last enrollment at Sacramento City College should be submitted to the Admissions/Records Office. This includes summer session and correspondence courses.

III. **Transfers from other community colleges**—Students who have previously attended another college and are in good standing are eligible to enroll at Sacramento City College, subject to residence requirements. Students should arrange a counseling appointment after their transcripts have been received to review their progress towards a degree or objective. All applicants should submit transcripts of other college records (if applicable). NOTE: Only official transcripts sent directly from the schools to Sacramento City College will be accepted. These should include any summer session or correspondence courses. All records submitted become the property of the college and will not be returned to the applicant. All transcripts must be received by the Admissions/Records Office by July 16 for Fall 2006 and December 17 for Spring 2007, or registration may be delayed. Students who have been disqualified by another college will not be admitted in the semester immediately following their attendance at that college. After one semester's absence, such students may be admitted subject to the Academic Standards Policy.

IV. **Concurrent Enrollment**—Students enrolled at Sacramento City College may be enrolled for college credit in another institution.

It is the responsibility of the student to request transfer to the Admissions/Records Office at Sacramento City College any credit earned in a concurrent enrollment.

V. **Allied Health Programs**—Students interested in Allied Health programs must be enrolled in the program as well as the college. Applications are available at the division office, Mohr Hall 18.

VI. **International Students**— International students are individuals who need a visa to study in the United States and must contact the International Student Center, Rodda North 118 for pre-admission requirements. For overseas applicants, it is advisable to submit all documents at least four to six months prior to first day of instruction to avoid lengthy visa delays. The Coordinator-Counselor can also assist new, continuing and transfer-in students with orientation, academic counseling based on major goals and ESL/English and math assessment course recommendations. The Center can answer specific F/M student questions updated always at: www.ice.gov/sevis. SCC international students are required to show evidence of an approved Health and Sickness Insurance Plan coverage to the SCC Health Office prior to registration every semester.

VII. **Advanced Education Students (11 & 12)**—Advanced education is intended to provide high school grade students in 11th and 12th grades with educational enrichment opportunities at the community college. To ensure success as an advanced education student, the following questions and answers related to the program have been developed. College classes often include adult/mature subject matter.

Who can enroll in advanced education classes:

Students, junior level or above or 16 years of age, with a GPA of 2.7 or higher and demonstrate ability in the subject area. Exceptions to the 2.7 GPA are academies, Human Career Development, and special courses designed for high school students.

What courses are excluded from the advanced education program:

- Basic skills courses numbered below 100
- Courses requiring repetition due to substandard grades
- Basic courses such as English, math, history or science
- Courses where the safety of the student or others would be jeopardized
- Courses with an adult or mature subject matter not appropriate for high school students

What does the student need to provide in order to enroll:

- Completed college application
- Supplemental data information
- Advanced education form
- Appropriate assessment results
- High school transcript
- Copy of private school affidavit, if appropriate
- Approval of Sacramento City College counselor

How do I register for class:

- Advanced education students must register in person at the Admissions counter or the outreach center
- Have a completed advanced education application
- If a student enrolls at a course held at the high school, the student may be assisted at the high school

What else should a student know about the advanced education program:

- The course credit and grade the student receives will become part of their permanent college record
- All prerequisites must be met
- A student may enroll in a maximum of six units or two classes each semester including summer
- Enrollment fees are waived but out-of-state and international students must pay those fees
- Students must be present at the first class meeting or they will be dropped
- If initially denied for advanced education, submit a petition for eligibility with the Dean of Counseling at SCC.

Matriculation

Matriculation is a process that assists the student in achieving educational goals. It is an agreement between the college and student who enrolls for credit. We ask that you participate in a partnership with us to ensure your educational success.

Here is how the matriculation process works:

1. **Admissions**
   Admissions materials are available in various languages, and new first-time students are directed to the Information and Orientation Office, Rodda North 138, for an explanation of the matriculation process.

   New first-time, non-exempted students who complete the matriculation process are allowed to register during continuing student registration. SCC eServices and telephone registration are available to facilitate the process.

2. **Assessment**
   Basic skills testing is one part of a complete assessment. All non-exempt students who go through the matriculation process must participate in basic skills testing. By using test results and other relevant criteria, new students and their counselors can determine appropriate placement into Mathematics, English or English as a Second Language classes. You must have assessment results to meet with a counselor. Test calendars and practice tests are available in the Assessment Center, Student Services Building 121.

3. **Orientation**
   Orientation and advising are provided for all first-time college students. They are generally scheduled weekly throughout the registration period for fall and spring. The sessions cover information about SCC programs, services, policies and procedures. Students desiring additional help are encouraged to augment the pre-registration orientation through Human Career Development courses.

4. **Counseling and Educational Plan Development**
   All matriculation students must meet with a counselor during their first semester to develop their educational plan. This plan will recommend courses for the first semester. Counselors provide advising related to course selection through completion of the Counselor Approved Planner form. Extra assistance is available to students who are undecided about their goal.

5. **Register for Classes** - SCC eServices and Telephone Enrollment System
   At Orientation students will receive information on procedures and dates for telephone registration.

   A graduated UTP (Universal Transit Pass) fee is charged to all students to a maximum of $15 per semester depending upon the number of enrolled units.

   California resident fees: $26.00 enrollment fee per unit per semester. Enrollment fees may increase for 2006-07.

   Out-of-State non-resident fees: $26.00 per unit plus $160.00 non-resident fee per unit, total $186 per unit.

   International student fees: $26 per unit, plus $160.00 non-resident fee per unit, plus $18.00 international fee per unit. Total $204.00 per unit. In addition, there is a $15.00 Universal Transit Pass fee.

   All fees are subject to change.

   Payment of enrollment fees is due within ten days of registering for classes. You must officially drop a class to avoid being charged for it.

6. **Follow-Up**
   All new students are encouraged to visit Counseling mid-semester for a three-semester Student Educational Planner. This plan will outline how the student will achieve his or her educational goal. Extra assistance is available for students who are undecided about their goal.

   Early Assistance
   Students who experience academic difficulty are contacted by the Early Assistance Program. Early Assistance is designed to provide students with extra assistance in their courses in order to succeed. Students who are experiencing difficulty in their classes are contacted and assisted early in the semester. Assistance may include workshops on classroom success, information on campus services, an appointment with a counselor, study skills assistance, or tutoring in a specific subject area. All students are welcome to participate in the services.

7. Exempt Criteria.

You can be exempt from participating in Orientation, Assessment, Counseling, or Advisement if you have:

- Completed an Associate Degree or higher; or
- Satisfied at least two of the following and do no wish to participate:
  - Identified a goal of upgrading job skills.
  - Enrolled in fewer than six (6) units.
  - Concurrently enrolled in another post-secondary institution; or
  - Have no degree or occupational objective.

If you have been declared exempt, you will be given the opportunity to elect whether or not to participate in the Matriculation process or any part of the Matriculation process.

Guidelines of Residency

Nonresident students do not automatically become California Residents by merely living in the state more than one year. State law also requires proof of intent to establish California residency. Such proof can include filing California Income Tax forms, voter registration, driver license, vehicle registration, and other acts of intent dated one year and one day prior to the start of the semester. The law also requires that the student show no contrary intent, that is, they must not have maintained residence status in their former state (i.e. driver license, taxes, car registration, etc.). The burden of proof rests with the student, not the district. The residency laws do not permit college officials to waive any portion of the residency requirements. Students must submit a request for reclassification prior to registration.

Residence Requirements

Out-of-state students may be admitted to Sacramento City College provided their applications are approved. Out-of-state students are classified as non-residents. Any person who was not a resident one year prior to the first day of a semester should be considered a non-resident and required to pay non-resident fees.

The residence determination dates are as follows:

Summer, 2006 semester - June 11, 2006

Fall, 2006 semester - August 20, 2006

Spring, 2007 semester - January 15, 2007

All students classified as non-residents are required to pay a non-resident tuition fee of $151 per unit at the time of registration. In addition, students who are both citizens and residents of a foreign country will be assessed an additional $18 per unit fee for capital outlay purposes. Non-resident tuition fees are refundable only during the first two weeks of a semester or the first week of the Summer Session if the student withdraws from a class or from the college. If a student is erroneously determined to be a non-resident and a tuition fee is paid, the fee is refundable provided acceptable proof of state residence is presented within the period for which the fee was paid. Refund requests will be processed only if accompanied by the receipt issued at the time of payment.

Fees are subject to change without notice upon approval by the Trustees of the Los Rios Community College District and pending approval by the State Legislature and Governor.

A non-resident student enrolled without payment of fees because of falsification of information shall be excluded from classes upon notification pending payment of the fee. Written notification may be given at any time. Students excluded because of falsification shall not be readmitted during the semester or summer session from which they were excluded, nor shall they be admitted to any following semester or summer session until all previously incurred tuition obligations are paid.

Non-resident Tuition Refund Schedule

Time of Withdrawal or Reduction	Amount of Refund (%) Per Unit of Reduction
Fall and Spring (Full semester classes)**	
By the end of the second week of instruction	100%
After the second week of instruction	No refund
Fall-Friday, September 1, 2006	
Spring-Monday, January 29, 2007	
Summer	
By Friday of first week of instruction	100%
After Friday of first week of instruction	No refund

**NOTE: The first week of instruction is the first week of the semester or summer session in which instruction is offered.*

***Note: Dates are adjusted for short-term classes. Please check the calendar in the Schedule of Classes.*

Standing Upon Admission

Advanced Placement Examination Credit - Students at Sacramento City College may be awarded units of credit for each Advanced Placement Exam (CEEB) they have passed with a score of 3, 4, or 5. Students will receive units/credits but not letter grades for these courses. A maximum of 15 units may be earned by AP examination but will not be used in the computation of cumulative grade point average for graduation or transfer. Credit may not be earned for courses which duplicate credit already allowed for by Advanced Placement Examination.

Students must submit a copy of their official CEEB Advanced Placement Test to the Admissions & Records Office. The following chart shows credit given and SCC course equivalencies.

Course Exam	AP Score	SCC Equivalency	Credit Allowed
Art History	3, 4, 5	ARTH 302, 304, 306, 308, 310	6 units
Art Studio			
Drawing	3, 4, 5	ART 300 or 302	3 units
2D Design	3, 4, 5	ART 320	3 units
3D Design	3, 4, 5	ART 370	3 units
Biology	3	BIOL 402	5 units
	4, 5	BIOL 412 or 422	5 units
Calculus			
Calculus AB	3, 4, 5	MATH 400	5 unit
Calculus BC	3, 4, 5	MATH 400 and 401	10 units
Chemistry	3	CHEM 305	5 units
	4, 5	CHEM 400	5 units
Computer Science			
Computer Science A	3, 4, 5	CISP 360	4 units
Computer Science AB	3, 4, 5	CISP 400	4 units
Economics			
Macroeconomics	3, 4, 5	ECON 302	3 units
Microeconomics	3, 4, 5	ECON 304	3 units
English			
English Lang. Composition	3, 4, 5	ENGWR 300	3 units
English Liter. & Composition	3, 4, 5	ENGWR 300 and 301	6 units
Environmental Science	3, 4, 5	BIOL 350	3 units
History			
European History	3, 4, 5	HIST 300	3 units
United States History	3, 4, 5	HIST 310 and 311	6 units
World History	3, 4, 5	HIST 307 and 308	6 units
Foreign Languages			
French	3, 4, 5	FREN 401and 402	8 units
German	3, 4, 5	GERM 401and 402	8 units
Spanish	3, 4, 5	SPAN 401and 402	8 units
Government & Politics: United States	3, 4, 5	POLS 301	3 units
Human Geography	3, 4, 5	GEOG 310	3 units
Music Theory	3, 4, 5	MUFHL 400 and 401	6 units
Physics			
Physics B	3, 4, 5	PHYS 310	3 units
Physics C: Electricity & Magnetism	4, 5	PHYS 420	5 units
Physics C: Mechanics	4, 5	PHYS 410	5 units
Psychology	3, 4, 5	PSYC 300	3 units
Statistics	3, 4, 5	STAT 300	4 units

Credit for Military Service—Upon presentation of papers showing honorable discharge and active duty of one year or more in the United States armed forces, veterans may receive four units of elective credit. This credit will meet the living skills requirement for the associate degree. They may also receive additional credit for training satisfactorily completed in service schools according to the recommendation of the American Council of Education. Credit for military service will not be posted on the permanent record until the student has completed 12 semester units with a grade point average of 2.0 at Sacramento City College.

Students in the six-months reserve training program are not eligible for military credit. This is in accordance with the recommendation of the American Council on Education issued September, 1964.

Credit for the College Level Examination Program—Sacramento City College will grant up to thirty (30) units of credit for completion of the five general examination areas at the 50th percentile or higher. Students requesting credit for CLEP should contact the Admissions/Records Office or the Counseling Office for specific policy provisions relating to CLEP. Students should be aware that four-year colleges have the right to accept, modify, or reject the CLEP units.

Prior Requirements

To register a student must:

1. Complete all enrollment requirements.
2. Pay all required fees.
3. Enroll at the designated time and date or anytime thereafter. The student may obtain his/her enrollment priority time and day by accessing SCC eServices or the telephone enrollment system.

Enrollment Procedures

The Class Schedule and Enrollment Calendar, printed prior to the beginning of each semester, contains detailed enrollment instructions. Students should enroll according to their scheduled time and date. See http://www.scc.losrios.edu or SCC eServices for further details.

Program Regulations

Program Adjustments—Students who wish to change their programs in any way after they have enrolled should follow the procedures listed in the class schedule. Students not attending a class in which they are officially enrolled should drop the class by submitting a drop through SCC eServices or by telephone, (916) 263-4400 to avoid incurring grades that would negatively affect their academic standing.

No semester length classes may be added to a student's program after the tenth (10th) day of instruction. Nine and six week classes may not be added after the first week of the class. Any exceptions will require the approval of the dean of that department.

A student may withdraw without penalty from individual courses or from the college up to the date indicated in the Board approved academic calendar or a corresponding time period for courses scheduled for shorter duration of time (see the schedule for detailed dates at www.scc.losrios.edu).

Repetition of Substandard Grades (D, F, or NC Grade)—Students may repeat courses where a substandard grade was assigned if the course was taken at an accredited college for which substandard grades have been recorded. The grade earned in the second or last enrollment shall be used exclusively in determining the grade points earned for the particular course at Sacramento City College. All previous grades must remain legible on the permanent record. Except for the classes in departments noted below, prior approval is not required to repeat a substandard grade unless the student is repeating a substandard grade for the second time. Repeated grades will be automatically discounted.

Repeat of aeronautics, cosmetology, dental assisting, dental hygiene, occupational therapy assisting, and physical therapist assistant substandard grades will not be allowed without the approval of the department and the division dean.

Repetition of Satisfactory Grade (A, B, C, or CR)—Courses where the student has previously received a satisfactory grade (A, B, C, or CR) may only be repeated with the approval of the Dean of Admissions (unless otherwise noted in the catalog). All requests to repeat a course must be approved and on file in the Admissions Office prior to enrolling for the course. The second grade earned will appear on the record but will not count in the GPA.

Repetition of Performance or Skill Building Classes—Students may repeat courses needed to meet a legally mandated training requirement as a condition of continued paid or volunteer employment. The number of times a performance or skill building class can be repeated is indicated in the course description.

Physical Education Requirement—Eligibility for the Associate in Arts or Associate in Science Degree requires the successful completion of one activity course in Physical Education. Military credit may fulfill this requirement.

Students with medical excuses on file may be exempted from the physical activity course requirement. Students not completing a physical activity course on the basis of this exemption shall be required to complete a minimum of 3 units in other courses in the Living Skills area.

Unit Loads—The normal load for full-time students planning to graduate in four semesters is 15 units per semester. Students desiring to carry units in excess of 18 units (8 units during Summer School) must obtain approval from the Dean, Admissions & Records. To do so they must petition one week prior to registering.

Students are regarded as legal "full-time students" if they carry a minimum load of 12 units.

Full governmental subsistence for veterans requires the following unit load:

a. Veterans under Public Law 894 - as required by the Veteran's Administration - 12 units.
b. Veteran's dependents under Public Law 634 - 12 units.
c. Veterans under the California Bill - 12 units.

The following categories require the minimum unit load indicated:

a. International students - 12 units
b. Student athletes - 12 units including Physical Education.

Catalog Rights—Election of Requirements

Students who maintain continuous enrollment in at least one regular semester of a calendar year (Spring, Summer, or Fall) at Sacramento City College or the equivalent at any other college or university, for the purpose of meeting Associate Degree or Certificate requirements, may elect to meet the requirements in the SCC catalog in effect at the time of first enrollment or at the time of graduation from SCC.

Students who maintain continuous enrollment in at least one regular semester at Sacramento City College or another California Community College or a California State University per calendar year, for the purpose of meeting transfer general education/ breadth requirements, may elect to meet the requirements in the SCC catalog in effect at the time of first enrollment or at the time of transfer to a California State University.

Credit—No Credit Grading

A student may elect one course per semester to be graded on a Credit or a No Credit grading basis. A request form must be filed with the Admissions/Records Office for this option prior to the end of the fifth week for a regular semester course(see www.scc.losrios.edu for on-line form). The deadlines for filing the request for short-term courses are published in the class schedule. The equivalent of an A, B, or C received for the course will be recorded as CR, with units earned. The equivalent of D or F will be recorded as NC, with no units earned. Units attempted for Credit/No Credit grades are not computed in the grade point average, but are used for determining progress probation and progress dismissal.

Students are advised to consult with a counselor for current policies regarding Credit/No Credit grading before using this grading option.

Credit By Examination/Course Challenge

Under special circumstances and with the concurrence of the department, students regularly enrolled and in good standing and who believe they are qualified by experience or previous training may take a special examination to establish credit in a course in which they are not formally enrolled. A student who wishes to challenge a course by examination must have successfully completed a minimum of 12 units at SCC with a grade of "C" or better.

Successful completion of a course by examination is recorded on the permanent record as a "CR" grade. The "CR" grade does not enter into the computation of the student's grade point average.

A maximum of 15 units of credit may be allowed by special examination. The units granted by credit by examination may not be used to establish full-time or part-time status or to satisfy the twelve (12) units residence requirement for graduation. Credit by Examination units cannot be used to establish eligibility for financial aid, athletics, veteran programs, social security, etc. Students will be assessed the regular enrollment fee for all challenged courses.

Procedures:

1) Prior to the fifth week of instruction, visit the instructional area division office to determine if an instructor is available to conduct the exam;
2) Submit a Credit by Examination form to Admissions and Records to have first three items verified. (Request a form from the Admissions and Records office or download from the SCC Web site (http://scc.losrios.edu Quick Link menu, Admissions and Enrollment Forms);
3) Obtain signatures of the instructor and division dean;
4) Turn in the form to Admissions and Records to officially enroll in the course;
5) Make payment for the course units at the Business Office (unless you have a Fee Waiver);
6) Contact the instructor for a time and location to take the exam.

When you have completed the exam, the instructor will submit the result. Either a Credit or No Credit will be entered on your transcript.

NOTE: Mathematics Course Challenge. Credit for a challenge examination will not be awarded when a student has successfully completed a course at a level more advanced than that represented by the examination in question.

Auditors: Auditing is not permitted in the Los Rios Community College District. All students must be officially enrolled in all courses they are attending.

Expenses

Enrollment Fee. All students must pay an enrollment fee of $26 per each unit per semester. Payment of enrollment fees is due within ten days of registering for classes. You must officially drop a class to avoid being charged for it.

Exemptions/Waivers. TANF/CalWORKS, SSI, SSP, Dislocated Worker, Displaced Homemaker, General Assistance, Non-Residents, Low Income as defined by BOGW standards, Public Safety employees and Volunteers enrolled in courses required to fulfill a state mandated training requirement.

Non-Resident Tuition. Students who have not established legal residence in California are required to pay a tuition fee. The tuition is set by the State of California each year. For the 2006-2007 school year tuition is $186 per unit. Dependents of military personnel will be charged nonresident tuition if their guardian is not a resident of California and is stationed out of state.

International students who are both residents and citizens of a foreign country will be assessed an additional $18 per unit fee for capital outlay purposes.

Fines. Fines are assessed for overdue books in the Library, and students are required to replace lost library books. Forwarding the transcripts of record is contingent upon payment of such bills and library fines.

Textbooks and Supplies. Students purchase their own textbooks and supplies. The College Store sells all required items. Note: There is a $25.00 Service Charge on all returned checks. Student records are placed on hold until the check and fee are paid in full.

Transcripts. Two transcripts are given free and additional copies may be obtained for two dollars ($2) each. Requests for official transcripts are initiated at the Admissions/Records Office. Students should allow at least five working days for a transcript to be prepared. Students requiring transcripts in less than five days will be assessed a $10 service charge per transcript order. NOTE: Grades for short-term classes will not be reflected on the transcript until the end of the semester. Unofficial transcripts can be viewed and printed by accessing www.scc.losrios.edu. Please check with the Admissions Office for other transcript options.

Drug and Alcohol Free Campus

The abuse of illicit drugs and alcohol disrupts classes, compromises our physical and mental health, subjects us to criminal penalties, and impairs our ability to benefit from the learning experience. Therefore, the faculty, staff and administrators of Sacramento City College ask you to support the creation of a drug and alcohol free learning environment by knowing and making others aware of college policies and the substantial health and legal consequences of abuse.

District Policy

Los Rios Community College District policy 2443 states that the District ". . . is committed to maintaining a drug and alcohol free workplace in accordance with the requirements of the U.S. Drug-Free Workplace Act of 1988, and the drug and alcohol free college environment for students and employees in accordance with the requirements of the Drug-Free Schools and Community Act Amendment of 1989."

Legal Sanctions

The LRCCD Standards of Student Conduct prohibit the use, sale or possession on campus of, or presence on campus under the influence of, any controlled substance.

If you abuse drugs or alcohol on campus, or appear on campus or at a college-sponsored function under the influence of drugs or alcohol, you can be suspended, expelled and/or criminally prosecuted.

Health Consequences

Use of controlled substances can lead to memory loss, indifference to academic achievement, impaired judgment, overdose, sudden death, liver disease, psychological disorders, and brain damage. Long-term alcohol abuse can cause ulcers, gastritis, pancreatitis, liver disease, cancer, loss of coordination, heart disease, stroke, emotional distress, sexual dysfunction, and other health problems.

For confidential assistance and referral, call any of the following:

On campus:	
Counseling	(916) 558-2204
Health Office	(916) 558-2367
Off campus:	
Sacramento Mental Health Center	(916) 732-3637
Sacramento County Health & Human Services	(916) 874-9754
Alcoholics Anonymous	(916) 454-1100
Narcotics Anonymous	(916) 732-2299

Campus Security Act of 1990

The Campus Security Act of 1990 (20 USC 1092 [Cleary Act]) requires that all colleges and universities receiving Title IV student aid assistance prepare and distribute an annual report which sets forth its policies on crime prevention issues and gives statistics on the number of specific crimes which occur on campus and the number of arrests on campus for liquor law violation, drug abuse violations and weapon possessions.

In addition, the act requires colleges and universities to provide timely warnings to the campus community of certain crimes reported to campus security by local law enforcement, which may be considered a threat to other students and employees.

Annually, on October 15, all campus crime statistics are published for public dissemination. These data are also available on the SCC Web site under Los Rios Police Department (LRPD) and are also available in a variety of publications including the College Catalog, Schedule of Classes, and student newspaper. In addition, a hard copy of the data may be obtained from the LRPD located on the corner of East and Library Road.

In order to maintain a safe college community, nurture a positive learning environment and protect the rights of all, Sacramento City College adheres to a Zero Tolerance Policy of campus violence in any form. We ask all to assist us in keeping our campus environment safe. Please report all incidents to the LRPD at (916) 558-2365.

Visitors to the College

Visitors are welcome to visit the campus at any time during business hours. Parking is available in the Hughes Stadium lot near the College Store in the metered spaces and restrictions are enforced Monday through Friday.

Ordinarily, individuals are not permitted to attend classes unless they are enrolled students. In exceptional circumstances, visitors may be permitted to visit a class, but only with the permission of the instructor conducting the class.

Student Right-to-Know Disclosure

In compliance with the Student Right-to-Know and Campus Security Act of 1990, completion and transfer rates for students attending Sacramento City College can be found on the California Community College State Chancellor's Office web site at http://srtk.cccco.edu/index.asp.

Academic Standards

Standards of Scholarship

Standards of scholarship at Sacramento City College depend upon the objectives, nature and content of the courses. Individual progress is a basic consideration, and the development of each student in the light of his or her needs and aptitudes is the major concern of the college. If minimum standards of scholarship are not attained, failure will result. In no case is credit given or are grades awarded merely on the basis of attendance. The evaluation of student performance is based on periodic examinations, class reports, term papers, and other evidence of scholarship. Each instructor is responsible for the evaluation methods employed in his or her courses. Students may not enroll for a class for which an incomplete was received.

Academic Expectations

Sacramento City College endorses an open door policy where students are welcome to attend regardless of previous educational background and where the college faculty and staff are committed to the success of students. It is the expectation of the college that students take responsibility for their learning as evidenced by their actions in class, on campus, and in the preparation for their classes. The college fully expects students to make measurable progress and meet the objectives of each course in which they are enrolled with or without accommodations for a verified disability. The college has both academic probation and progress probation policies outlined in the catalog.

With certain exceptions students are entitled to attempt a maximum of 30 remedial or developmental units so that they have an opportunity to develop the skills to succeed in college level work. Students are ultimately expected to succeed in associate degree level courses and/or meet their educational objectives.

Units of Work

A "unit" represents an hour per week for one semester in lecture or recitation with the necessary preparation time, or three hours in laboratory or other exercises not requiring homework for preparation.

Students will notice unit values vary by course. Courses such as MUIVI 315 are offered for 1-2, 1-2 units and may be taken twice for one or two units each time. Topic courses may be repeated four times for credit providing there is no duplication of topics.

Basic Skills Unit Limitation

The Board of Governors adopted regulations beginning July 1, 1990, limiting the number of developmental and/or basic skills course units to 30. These courses are usually numbered in the 1-99 series. Students may petition for a waiver of the 30-unit limitation.

Grades and Grade Point Averages

The grading standards with their grade point equivalents are as follows:

- A Excellent - 4 grade points per unit
- B Good - 3 grade points per unit
- C Satisfactory - 2 grade points per unit
- D Passing, less than satisfactory - 1 grade point per unit
- F Failing - 0 grade points, no units earned
- CR Credit (C or better) - Not computed in GPA
- NC No Credit (less than C) - Not computed in GPA, but affects progress, probation, and dismissal
- I Incomplete - Not computed in GPA, but affects progress, probation, and dismissal
- IP In Progress - Course transcends semester limitation
- RD Report Delayed
- W Withdrawal - Not computed in GPA, but affects progress, probation, and dismissal

Grade Reports

Once during each semester all students may be given progress grade reports which are indicators of the level of work they are achieving in each class as of that date. These reports are only an estimate of the student's work at the time, and do not in any way guarantee that these will be the final grades. If the student's work is unsatisfactory at this time, he/she should consult with instructors to determine the cause of their difficulty and the steps to be taken to improve their performance. Final grade reports are issued after the end of each semester and are available at www.scc.losrios.edu.

Good Standing

In determining a student's eligibility to acquire or remain in good standing and attendance at a Los Rios College, both quality of performance and progress toward completion of objectives are considered. A student who attempts 12 or more semester units and earns a 2.0 GPA on a 4-point grading scale and who completes more than 50% of all attempted units merits a good standing relationship with the college.

CELEBRATING 90 YEARS

Grades of Incomplete

An incomplete grade (I) may be assigned by the instructor when, in the judgment of the instructor, the student is unable to complete the requirements of a course because of unforeseeable emergency and justifiable reasons at the end of the semester. To receive credit for the course, the incomplete work must be finished no later than one year from the end of the semester in which it was assigned. A final grade will be assigned when the work stipulated has been completed and evaluated or when the time limit for completing the work has elapsed. A student may petition for a time extension due to unusual circumstances. A student may not re-enroll in a course for the purpose of completing an incomplete.

Academic Renewal Without Course Repetition

A student may have previous substandard work (D's or F's) earned at Sacramento City College alleviated. Courses and grades that no longer reflect the student's current educational objective and current level of academic success may upon petition be discounted in the computation of the grade point average. The following minimum conditions must apply:

1. No more than 30 units of substandard grades may be discounted.
2. Three (3) full semesters shall have elapsed and a minimum of twelve (12) units of academic work with a 2.0 grade point average (GPA) shall have been completed by the student at a District college since the most recent work to be alleviated was recorded.
3. All work on the permanent record must remain legible, insuring a true and complete academic history.
4. Under no circumstances may course work that has been used in the fulfillment of requirements for a degree that has been granted be discounted.
5. The form may be submitted at sccpetitions@scc.losrios.edu.

Scholastic Honors

Honors may be earned by students enrolled in twelve (12) units or more for the semester. Nine (9) of these units must be graded on a letter basis exclusive of Credit (CR). Students will be placed on the President's Honor Roll if they earn a grade point average of at least 3.0. If they earn a grade point average of 3.5 or better, they will be named for Highest Honors.

Honors at Graduation

Students who maintain a high scholarship average are eligible for honors at graduation. Students who maintain a scholarship average of 3.5 or better are eligible for graduation "with great distinction"; students who maintain a scholarship average of 3.0 or better are eligible for graduation "with distinction." The published lists of students are compiled from the data available at time of publication and may be subject to subsequent revision. Grade point averages from the other colleges are used in the computation of scholastic honors.

Phi Theta Kappa

Phi Theta Kappa is an international honor society for the two-year college. It offers recognition of academic excellence, scholarships, career placement resources, leadership development and service opportunities. It is the only two-year college honor society whose members are automatically nominated for the national dean's list. Students who join Beta Eta Psi, SCC's chapter of Phi Theta Kappa, automatically receive the designation "Phi Theta Kappa Member" on their official transcripts.

Phi Theta Kappa membership is based on academic achievement. Students must be enrolled in at least .5 unit of coursework in a regionally accredited institution offering an associate degree program, must have completed a minimum of 12 hours of course work leading to an associate degree or transfer, must have a 3.5 grade point average, and must enjoy full rights of citizenship in the U.S. or in the student's home country.

After induction, members must maintain a 3.0 GPA. Every member of Phi Theta Kappa at SCC is automatically a member of the Honors Club; however, members of Phi Theta Kappa must apply to the Honors Program separately to take Honors courses and to be eligible for the "Honors Scholar" designation on their transcripts.

Probation

There are two types of probation: academic and progress.

Academic Probation

A student who has attempted at least 12 units is placed on Academic Probation if the student has earned a grade point average below 2.0 in all units which were graded.

Progress Probation

A student who has attempted at least 12 semester units is placed on Progress Probation when the percentage of all units in which a student has enrolled and for which entries of "W," "I," and "NC" are recorded reaches or exceeds fifty (50) percent.

Unit Limitation. A student on either academic or progress probation may be limited to 12 units plus a physical education activity course or to a maximum load recommended by the student's counselor.

Removal from Probation. A student on Academic Probation is removed from probation and acquires good standing when the student's cumulative grade point average is 2.0 or higher. A student on Progress Probation is removed from probation and placed in good standing status when the percentage of units with entries of "W," and "I," and "NC" drops below fifty (50) percent.

Computations

$$\text{Grade Point Average} = \frac{\text{(Total Grade Points Earned)}}{\text{(Total Units Attempted With a Letter Grade)}}$$

$$\text{Progress Percentage} = \frac{\text{(Total Units With "W," "I" and "NC")}}{\text{(Total Units In Which Enrolled)}}$$

Summer session units and grades will count toward earning probation, removal from probation, or possible dismissal.

Dismissal

A student on Academic Probation is subject to dismissal when the student earns a cumulative grade point average of less than 2.0 in all units attempted in each of three consecutive semesters.

Progress Dismissal

A student on Progress Probation is subject to dismissal if the cumulative percentage of units in which the student has been enrolled for which entries of "W", "I", and "NC" are reported in at least three consecutive semesters reaches or exceeds fifty (50) percent.

Dismissal Period

A student may be required to remain out of college one semester, but may return on probationary status after one semester's absence subject to petition approval.

Appeal Option

A dismissed student may appeal to the Dean, Admissions and Records, for permission to enroll without loss of semester if the student feels that the cause for the dismissal reflects extenuating circumstances. The burden of written documentation in support of these circumstances remains with the student. The petition form may be submitted at sccpetitions@scc.losrios.edu.

Exceptions:

Students may petition to the Dean, Admissions and Records, for readmission following dismissal if their dismissal arises from one of the following:

1. Military service obligations.
2. Unusual personal problems which interfered with academic performance.
3. Serious health problems, substantiated by a doctor's statement, which affected academic performance.
4. Disqualified from a four-year college or university to which they were admitted directly from high school.
5. Conditions that their counselors determine may be rectified by a change of curriculum.

Satisfactory Progress

Students readmitted for those reasons listed (see Exceptions) are considered to be making satisfactory progress.

Students readmitted must maintain a satisfactory progress point average to maintain "satisfactory progress" status.

Athletics

Students who participate in intercollegiate athletics must meet the requirements of the athletic codes of the Commission on Athletics (COA) and the Bay Valley Conference, which relate to legal residence, academic standing, and previous seasons of college competitions. Eligibility requires a student to be currently enrolled and passing in a minimum of 12 units.

In order to continue athletic participation in any sport, the student athlete shall maintain a cumulative 2.0 grade point average.

The nature of eligibility requirements in the athletic code is very exacting, and athletes are advised to become thoroughly familiar with them in order to avoid loss of eligibility. Information on these requirements should be obtained by interested students from the appropriate coach at the beginning of the school year.

Attendance

For students to successfully complete their college work, regular class attendance is necessary. The following regulations pertain to attendance:

1. Students are expected to attend all sessions of classes in which they are enrolled. A student having excessive absences may be dropped from any course by the instructor any time during the semester. Excessive absences are defined as 6% of the total hours of class time.
2. Students not cancelled or withdrawn from courses after the last day to drop a course without penalty may receive an "F" grade on their permanent record. This grade will be used in computing probation or disqualification. Exception to this policy requires the approval of the instructor(s) involved and the Dean of Admissions and Records.
3. The application of the excessive absence concept may vary by division according to the attendance demands of a certain curriculum. Students enrolled in a program such as Cosmetology, Vocational Nursing, Registered Nursing, Aeronautics, Dental Assisting, or Dental Hygiene should become familiar with special attendance procedures.
4. The instructor may reinstate a student dropped from a course provided the instructor feels the student can successfully complete the course.
5. Students absent from classes for any reason should contact their instructors to determine "makeup" requirements.
6. The regulations cited in 1-5 above also apply to summer session. The time periods are adapted for 6-or 8-week summer classes.

No Shows

Students who do not attend one of the first two class meetings of a course may be dropped by the instructor as a "no-show". However, to assure no grade penalty for the course, a drop may be submitted by telephone or by accessing www.scc.losrios.edu. Students are responsible for ensuring they are dropped from class by using by the Telephone Enrollment System or by accessing SCC eServices.

Withdrawal From Class (Drops)

Students may withdraw from regular semester courses prior to the end of the fourth week without a notation being placed on their permanent academic record. Withdrawals between the beginning of the fifth week and the end of the 14th week of classes will be noted as a "W" on the permanent academic record. Summer deadlines are adjusted. Check the schedule of classes for more information.

"W's" are used for determining progress probation and progress dismissal.

To officially drop a class without penalty, a student must drop by telephone or accessing SCC eServices before the deadline dates published each semester in the schedule of classes.

Course Selection

Students are responsible for the selection of courses. However, they should consult with a counselor to determine the appropriateness of course selections for their major and general education requirements, especially for students transferring to the four-year institutions. Courses offered are subject to change, contingent upon availability of staff and funds.

Prerequisites

Sacramento City College intends to guide students into courses in which they will have the greatest chance for academic success. Throughout the catalog, courses are designated as having prerequisites, corequisites, and/or advisories. Following are the definitions for prerequisites, corequisites, and advisories on recommended preparation:

1. "Prerequisite" is a course or skill level that a student must meet prior to enrolling in a course or program.
2. "Corequisite" is a course that a student is required to enroll in at the same time as another course.
3. "Advisory" is a suggested course or skill level that a student is advised to meet prior to enrolling in a course or program.

Counselors and instructors can advise students about which courses to take. Their advice will be based on test scores, transcripts, and student educational goals.

Courses that are cross-referenced are indicated in parentheses following each of the particular courses. Students should be aware that credit will be given for ONLY one of the cross-referenced courses, but not for both.

In the Class Schedule students will find specific information regarding the days, hours, instructors, and rooms in which classes will be held. Class Schedules can be purchased from the Business Office and the College Store, prior to the start of registration for the next semester.

Prerequisite Challenge Procedure

If you feel that you can meet the requirements, or one of the conditions below exists, you can challenge a prerequisite or corequisite. A Prerequisite Challenge Form can be obtained from any division office. Criteria for challenging a course are as follows:

1. You have knowledge or ability to succeed in the course without the prerequisite.
2. The course that provides the prerequisite is not readily available.
3. You believe that the prerequisite is discriminatory or being applied in a discriminatory manner.

Once you have completed the challenge procedure, your challenge will be reviewed by faculty. You will be informed in writing of the faculty's determination within five working days.

Change of Address or Name

Students should report a change of address immediately to the Admissions and Records Office. The student will be held responsible for any mail sent to the wrong address. Any change in a name as a result of marriage or court action should be reported to the same office with the proper documents to substantiate the change. Students may change their name, address and phone number at SCC eServices.

Access to Student Records

The Los Rios Board of Trustees, in order to meet the provisions of the Family Rights and Privacy Act of 1974 and the Education Code, has established policies giving students and parents of dependent students access to certain designated records. A summary of the rights and procedures for access are contained in the Students Rights and Responsibilities section of the Los Rios Community College District Policy manual. Complete copies of the Act, Education Code, and Board policies are available in the offices of the Dean of Admissions and Records and the Vice President of Student Services.

District Regulation 2265 provides for the release, without student consent, of Student Directory Information, i.e., student's name, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and most recent previous public or private school attended. In addition, federal law provides that representatives of the U.S. Department of Defense shall be provided a student's name, address, and telephone number for recruitment purposes. Students have the right to refuse the release of directory information by submitting a written statement to the Admissions and Records Office.

Student Rights and Responsibilities

College students are both residents of the United States and members of the community; they have the same rights and freedoms that all residents have and, as residents, they are accountable to Federal and State laws and statutes. In addition, students are also accountable to Los Rios Board policies and individual college rules and regulations.

The President of a college in the district serves as the chief administrator and has been delegated by the Board of Trustees to be responsible for the overall supervision of the operation of the college in conformity with the directives and duties as defined by the district Chancellor/Superintendent and consistent with the policies of the Board of Trustees.

In any conflict related to student discipline, students shall be informed in writing of charges to be brought against them, and they shall have the right to be assisted in their defense by non-legal counsel and/or advisor.

Student Conduct

Students are encouraged to familiarize themselves with the Student Rights and Responsibilities and are expected to observe appropriate standards of conduct, order, morality, personal honor, and academic duty. Certain activities are not considered appropriate to a college campus, and are prohibited by the Board of Trustees. These include participation in gambling, raffles, and card playing except when approved by the Vice President of Student Services as a regularly scheduled activity. Smoking is prohibited in all SCC buildings and at least 30 feet from any door. Drinking or being in possession of or under the influence of alcoholic beverages on college campuses is prohibited without qualification. The Student Guide covers these procedures in more detail.

Student Grievance Policy

While attending SCC, students sometimes have misunderstandings or experience difficulty with a district or college employee. When students feel they have been treated unfairly and believe that one or more of their student rights have been violated, they can pursue a remedy or solution to the problem through the college's Student Grievance Process. The grievance process is explained in detail in LRCCD Board Policy and Regulations P/R-2412.

The levels and time lines of the Student Grievance Process are as follows:

Informal Grievance,

Level 1-

Student is required to meet with staff member(s) and/or immediate supervisor of the staff member(s) in an attempt to mutually resolve the matter. This discussion must take place within ten (10) days of the alleged incident.

Formal Grievance,

Level 2-

Filing: Within five (5) days of completion of informal procedure, and not later than twenty-five (25) days from the date of the alleged incident, student may choose to file a Student Grievance Form.

Where: RN257, Office of the Student Grievance Officer, Julia Jolly, Associate Vice President of Instruction, (916) 558-2386.

Purpose: Student Grievance Officer to determine grievability of the matter.

Timeline: Within ten (10) days of filing date, Student Grievance Officer must notify all parties of status of grievability.

(a) If deemed not grievable, the Student Grievance Officer will notify the student, in writing, that the grievance has been rejected and state the reason(s) why.
(b) If deemed grievable, a hearing is scheduled.

Level 3-

Hearing: Formal hearing scheduled within ten (10) days following the appointment of a Hearing Officer.

Decision: Within ten (10) days of receipt of hearing, the Hearing Officer will inform all parties, in writing, of his or her decision.

Level 4-

Filing: Within five (5) days of Level 3 decision, either party may appeal the Hearing Officer's decision.

Where: President, RN275.

Decision: Within ten (10) days of receipt of the appeal documents, the President will inform all parties, in writing, of his or her decision and that decision is final.

Students should be aware that an assigned grade by an instructor is not a grievable matter, except as outlined in Education Code 762442(a), which states:

> 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 in the absence of mistake, fraud, bad faith, or incompetence shall be final.

Students should remember that it is important to fully understand and comply with the various time lines. As used in these procedures, "days" shall mean calendar days, provided, however, that days during winter break, spring break and breaks before and after summer sessions shall not be counted as "days."

Student Grievance Officer: Julia Jolly, Associate Vice President of Instruction, (916) 558-2386, RN257.

The Associate Vice President is prepared to assist students in resolving concerns or problems that may be handled through the college's Student Grievance Process and can answer questions students have about any aspect of the process. The Student Grievance Form and LRCCD Board Policy and Regulations P/R-2412 are available through this office.

A copy of the policy and regulations can also be obtained from Dean of Student Services (RN111), Dean of Matriculation, Support Services, and Student Development (SG228), Vice President of Student Services (RN272), and Instructional Services (RN257), as well as all Division Dean offices.

Graduation

General Education

The primary function of education is to transmit from each generation to the next the knowledge and skills requisite to enlarge the comprehension of our place in the universe. Sacramento City College is committed to the principle of providing general education which includes: Natural Science, Social Science, Humanities, Languages and Rationality, and Living Skills. All of these are basic and necessary to participate in and contribute to a balanced life in a democratic society that is diverse in its social, cultural, and educational backgrounds.

A comprehensive education serves to develop the creativity, critical thinking, ethical behavior, and self-understanding which are essential to the attainment of personal goals and to participate in a society characterized by increasing global interdependence, competitiveness, and by rapid and significant change.

Therefore, the purpose of general education is to give breadth to the college experience, enhance the ability to learn, and ensure an appropriate level of competency. Thus, the general education program provides coherence to undergraduate education and affords students the opportunity to develop an integrated overview of the diverse fields of human knowledge.

If you plan to complete all requirements for graduation or transfer to a four-year school next semester, you can qualify for priority registration (registering prior to continuing student registration). To take advantage of this benefit, meet with a Sacramento City College counselor BEFORE registration begins to have your transcript evaluated and complete the priority registration form. The counselor will submit the form to Admissions and Records so you will receive a new registration date and time. For more information, contact Counseling or Admissions and Records.

Graduation

Associate in Arts (A.A.)
Associate in Science (A.S.)
GRADUATION REQUIREMENTS 2006-07

All students MUST satisfy the following four requirements (I, II, III, IV) in order to earn the Associate in Arts/Science degree:

1. Complete a minimum of 60 degree applicable units to include:
   A. a grade point average of 2.0 ("C" average),
   B. at least 12 units completed at Sacramento City College.

2. Complete the required courses for a "Major" offered at Sacramento City College (see catalog for the list of majors), general education requirements, and sufficient electives for a minimum of 60 units total.

3. Complete all general education requirements, Areas A, B, C, D, E and F.

4. Complete all three (3) Competency Requirements (reading, writing, and mathematics).

EXCEPTION: Students who possess a baccalaureate or higher degree completed at a college or university accredited through a CHEA (Council for Higher Education Accreditation) recognized Regional Accrediting Agency will have satisfied general education and competency requirements (# 3 and 4 listed above) for the Associate of Arts or Associate of Science degree. Degrees from accredited institutions outside of the United States will be evaluated on a case-by-case basis.

Note: Courses designated with an **asterisk (*)** are cross-referenced under two areas but **can be credited only once.**

AREAS				MIN. UNITS	COM-PLETED	IN PRO-GRESS	NEED
Area A - Natural Science (3 units minimum) - Courses designated with a (L only) indicates a lab course only for one unit.							
ANTH ASTR BIOL CHEM GEOG GEOL PHYS PSYC	300, 301 (L only), 480 310, 320, 330, 435 100, 305, 308, 320, 323, 330, 342, 350, 370, 402, 412, 422, 430, 431, 440, 464, 466 300, 305, 306, 320, 330, 336, 400, 401, 420, 421, 425, 426 300, 301 (L only), 306, 308 302, 305, 308 310, 350, 360, 410, 420, 430 310, 314, 316 Course: _____ College: _____			3			
Area B - Social Science (6 units minimum) - One course from B1 and one from B2							
B1. HIST POLS	American Institutions (3 units): 310, 311, 314, 320, 321, 370, 371, 483, 484, 485 301, 481 Course: _____ College: _____			3			
B2. ADMJ ANTH BUS COMM ECE ECON ENGWR FCS GEOG GERON HIST	Other Social Sciences (3 units): 342 310, 315, 317, 320, 332, 334, 341, 481 300 325*, 328*, 341*, 351, 363 312, 314* 100, 302, 304, 480 384 312, 314*, 320*, 324, 326, 330* 310, 312, 320, 322, 480 300* 300*, 302*, 305*, 307, 308, 309, 344, 360, 364*, 365*, 373*, 380*, 400*, 494	JOUR PHIL POLS PSYC SOC SOCSC	310, 320 368*, 482* 302, 310, 320, 322, 340, 480, 494 300, 320, 340, 360, 363, 367, 370, 376, 390*, 480, 494 300, 301, 305*, 310*, 312*, 321, 335*, 341, 343, 344*, 345, 375, 380, 382, 480 300, 320, 325, 330, 332, 335, 336, 350*, 352	3			
	Course: _____ College: _____						

Area C - Humanities (3 units minimum)				**MIN. UNITS**	**COM-PLETED**	**IN PROGRESS**	**NEED**
ANTH	330						
ART	300, 320, 370, 390, 430, 443						
ARTH	300, 302, 304, 306, 308, 310, 312, 320, 324, 328, 330, 332, 334						
COMM	301*, 302*, 305, 325*, 341*, 371*						
ENGCW	400, 410, 420, 431, 450						
ENGLT	303, 304, 310, 311, 320, 321, 325, 327, 331, 332, 334, 335, 345, 346, 360, 370, 380, 392, 400, 401, 403, 480, 481, 494						
ENGWR	301*						
ESL	326						
ESLR	340						
FASHN	330						
	Foreign Languages:						
	ARABIC 401, 402		KOREAN 401, 402				
	CANT 401, 402, 411, 412		MAND 401, 402, 411, 412				
	FARSI 401, 402		RUSS 401, 402	**Area D -**			
	FREN 401, 402, 411, 412		SPAN 401, 402, 411, 412, 431, 432				
	GERM 401, 402, 411, 412		TGLG 401, 402				
	JAPAN 401, 402, 411, 412		VIET 401, 402				
HIST	300*, 302*, 305*, 364*, 365*, 373*, 380*						
HUM	300, 310, 332, 350, 352, 480, 483						
MUFHL	305, 309, 310, 311, 315, 320, 330, 331, 332, 400, 481, 482						
PHIL	300*, 302, 310, 317, 330, 331, 333, 338, 352, 353, 368*, 480, 481, 482*, 499						
SILA	305, 306, 315, 316, 320, 330						
TA	300, 302, 303, 310, 312, 350, 351, 360, 395						
	Course: _____ College: _____						
Languages and Rationality (6 units minimum) - At least one course from D1 and one from D2							
D1.	English Composition (3 units):						
BUS	310						
ENGWR	100, 300, 301*, 302			3			
ESLW	340						
MET	220						
TECH	103						
	Course: _____ College: _____						
D2.	Communication and Analytical Thinking (3 units):						
AERO	300	ET	310 and 311				
CISC	300 (1 unit), 310, 321 (1 unit)	GEOG	330				
		HIST	400*				
CISN	136, 140, 141, 146, 300, 302, 303, 304, 306, 308, 315 (2 units), 320, 322, 324, 370, 378	MATH	100, 104, 110, 120, 123, 124, 170 (2 units), 300, 310, 334, 340, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482				
CISP	301, 310, 342, 350, 360, 363, 370, 371, 400, 401, 430, 440, 452, 457	MET	352	3			
		PHIL	300*, 320, 322, 325				
CISS	300 (1 unit), 301 (2 units), 355	SOC	305*				
		STAT	300				
CISW	400, 405, 410, 420	SURVY	300				
COMM	301*, 302*, 311, 315*, 316, 331, 343, 345, 361, 371*						
ECON	310, 482						
	Course: _____ College: _____						

Area E - Living Skills (3 units minimum) - At least one course from E1 and one from E2 OR E3 if student meets Military Service Credit requirements.				**MIN. UNITS**	**COM-PLETED**	**IN PROGRESS**	**NEED**
E1. Physical Education (1 unit) - any activity course from: ADAPT (except ADAPT 30) DANCE FITNS PACT PET 342 SPORT (except SPORT 90) TMACT Course: _____ College: _____ NOTE: Exemption to the physical education activity course is permitted for students with medical excuses on file. Students not completing a physical education activity course on the basis of this exemption shall be required to complete a minimum of 3 units in Area E2.				1			
E2.	Other Living Skills (2 units):			2			
ADMJ BUS COMM ECE EDT FASHN FCS GERON HEED	303 320, 498 315*, 321, 323, 328*, 335 314*, 415 498 310 314*, 320*, 330*, 332, 340, 344, 346, 480 300*, 302 300, 321, 340	HCD HSER LIBR PET PSYC SOC SOCSC WEXP	310, 312, 318, 330 (1 unit) 375 318 (1 unit), 325 307, 412 353, 356, 358, 374, 390*, 392, 405 310*, 312*, 335*, 344* 350* 198, 298, 498				
Course: _____ College: _____							
E3. Military Service Credit (honorable discharge) with minimum of one (1) year active duty service. Submit copy of DD 214 to the Admissions & Records office.				0			
Area F - Ethnic/Multicultural Studies (0-3 units minimum). The course may be completed as part of the 21 units of the General Education pattern, as a course required by the major, or as an elective course.				**MIN. UNITS**	**COM-PLETED**	**IN PROGRESS**	**NEED**
ADMJ ANTH ARTH BIOL BUS COMM ECE ENGLT ESL ESLR FCS GEOG	302 (F98) 310 (F97), 315 (F93), 317 (F06), 330 (F96), 332 (F95), 334 (F95), 341 (F05), 481 (F97) 320 (F93), 324 (F93), 328 (F93), 330 (F93), 332 (F93), 334 (F05) 323 (F02) 330 (F04) 325 (F93) 430 (F93) 327 (F06), 334 (F95), 335 (F99), 346 (F99), 360 (F97), 401 (F02), 480 (F95), 481 (F95) 326 (F99) 340 (F00) 342 (F05) 310 (F95)	HIST HUM JOUR MUFHL PHIL PSYC SOC SOCSC TA	307 (F98), 308 (F98), 309 (F93), 310 (F99), 311(F99), 320 (F93), 321 (F93), 344 (F96), 360 (F03), 364 (F93), 365 (F93), 370 (F93), 371 (F93), 373 (F93), 380 (F04), 483 (F00), 484 (F00) 332 (F93), 483 (F06) 320 (F95) 330 (F06), 331 (F93), 332 (F04) 302 (F98), 317 (F98), 352 (F93), 353 (F93), 367 (F93) 321 (F93), 330 (F01) 300 (F03), 320 (F93), 325 (F93), 330 (F93), 332 (F93), 335 (F93), 336 (F93) 308 (F01), 318 (F01), 454 (F93), 455 (F93)	0 or 3			
Course: _____ College: _____							

Competency Requirements - Complete all three areas (A, B, and C)	REQUIRED	COM-PLETED	IN PRO-GRESS	NEED
A. READING Competency 1. Achieve a qualifying reading score on the first or second English assessment or 2. Complete one of the following courses with a grade of "C" or better: ENGRD 310 ESLR 340 or 3. Obtain a satisfactory score on a college-level reading examination or 4. Possess an AA/AS degree or higher from an accredited college in the U.S. or 5. Pass an equivalent course at an accredited college. Course: _____ College: _____	0-3			
B. WRITING Competency 1. Complete one of the following courses with a grade of "C" or better: BUS 310 ENGWR 100, 300, 480 ESLW 340 MET 220 TECH 103 or 2. Pass an equivalent course ("C" grade or better) at an accredited college in the U.S. 3. Possess an AA/AS degree or higher from an accredited college in the U.S. Course: _____ College: _____	0-3			
C. MATHEMATICS Competency 1. Complete one of the following courses with a grade of "C" or better: MATH 100, 104, 110, 120, 123, 124, 170, 300, 310, 334, 340, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482 CISP 342 ET 311, 315 STAT 300, 480 or 2. Obtain a satisfactory score on the mathematics competency examination or 3. Pass an equivalent course ("C" grade or better) at an accredited college in the U.S. Course: _____ College: _____	0-3			

Credit By Examination/Course Challenge

Under special circumstances and with the concurrence of the department, students regularly enrolled and in good standing and who believe they are qualified by experience or previous training may take a special examination to establish credit in a course in which they are not formally enrolled. A student who wishes to challenge a course by examination must have successfully completed a minimum of 12 units at SCC with a grade of "C" or better.

Successful completion of a course by examination is recorded on the permanent record as a "CR" grade. The "CR" grade does not enter into the computation of the student's grade point average.

A maximum of 15 units of credit may be allowed by special examination. The units granted by credit by examination may not be used to establish full-time or part-time status or to satisfy the twelve (12) units residence requirement for graduation. Credit by Examination units cannot be used to establish eligibility for financial aid, athletics, veteran programs, social security, etc. Students will be assessed the regular enrollment fee for all challenged courses.

Procedures:

1) Prior to the fifth week of instruction, visit the instructional area division office to determine if an instructor is available to conduct the exam;

2) Submit a Credit by Examination form to Admissions and Records to have first three items verified. (Request a form from the Admissions and Records office or download from the SCC Web site (http://scc.losrios.edu Quick Link menu, Admissions and Enrollment Forms);

3) Obtain signatures of the instructor and division dean;

4) Turn in the form to Admissions and Records to officially enroll in the course;

5) Make payment for the course units at the Business Office to (unless you have a Fee Waiver);

6) Contact the instructor for a time and location to take the exam.

When you have completed the exam, the instructor will submit the result. Either a Credit or No Credit will be entered on your transcript.

NOTE: Mathematics Course Challenge. Credit for a challenge examination will not be awarded when a student has successfully completed a course at a level more advanced than that represented by the examination in question.

Application for Graduation

Candidates for graduation must initiate a petition for graduation. Petitions are available at scc.losrios.edu, Quick Link menu, Graduation, or from the Admissions and Records office.

The deadline date to file for graduation can be found in the College Calendar printed in the Schedule of Classes or online at scc.losrios.edu.

Degrees are awarded at the May Commencement exercise only and all students receiving degrees are encouraged to attend.

The Distinguished Service Award

One of the oldest traditions of the college is the annual selection of two students who have given valuable and outstanding service to the college. Honored at commencement, their names are engraved on a permanent plaque. Selection is made by a committee appointed by the College President.

Transfer Information

Transfer students can also earn an Associate Degree while completing transfer requirements by completing Option A or Option B for the General Education, Transfer major at Sacramento City College. Each of the public four-year colleges/universities in California will accept a maximum of 70 semester units of transferable courses.

Students who plan to transfer should take courses required by the institution they are preparing to attend. For detailed requirements for a specific major and college or university, students are strongly advised to meet with a counselor regularly because major preparation and general education requirements can change from year to year.

Transfer Center

The Transfer Center is designed to assist students in transferring to any four-year college or university. The Center maintains applications, catalogs, and other resource materials for many colleges and universities. Representatives from California State University, Sacramento; University of California, Davis; and University of the Pacific are available weekly to meet with students in the Transfer Center about their campus or other colleges within their systems.

The Transfer Opportunity Program (TOP) is a cooperative effort between UC Davis and Sacramento City College. It is designed to ensure students a smooth transfer to UC Davis. A UC Davis TOP Coordinator is available to meet with students in the Transfer Center.

The Transfer Center also provides Transfer Admission Agreements which guarantees admission to students who complete specified admission criteria for CSU Bakersfield, CSU Hayward, CSU Monterey Bay, CSU Sacramento, CSU San Bernardino, CSU San Francisco, CSU Stanislaus, UC Berkeley, UC Davis, UC Irvine, UC Riverside, UC San Diego, UC Santa Cruz, UOP, and several other universities. Concurrent enrollment at UC Davis with fees waived is available to Sacramento City College students who have approved transfer agreements through the Transfer Center. Concurrent enrollment at CSU Sacramento with fees waived for one class is available through the "Crossover" program.

The Transfer Center is located in the Counseling Center, Rodda North 147, or call (916) 558-2181. Office hours are Monday through Thursday, 8:30am - 8:00pm, and Fridays, 8:30am - 5:00pm.

Transfering to a California State University or University of California

Students planning to transfer to a California university should plan a program to meet the admissions, lower-division major preparation, and general education requirements of the specific institution that they plan to attend. Transfer admission eligibility is based on transferable college units and/or high school record(s) and test scores. Each institution has its own requirements for admission and for junior standing. To prepare for transfer, students must decide which school they will attend through research in the Transfer Center, RN147, consult a counselor for the specific requirements for that particular institution, to create a written educational plan.

Independent/Private California Colleges and Universities

California has fully accredited independent/private colleges and universities that provide a host of options at undergraduate and professional levels for students planning to continue their education beyond community college. Students will be given academic credit for most, if not all, of their community college transferable credits which can apply to general education, the major, and other courses at most independent/private colleges and universities.

Each institution has its own requirements for admission. These requirements are outlined in the respective college catalogs that may be available in the Transfer Center on their web site. Students are urged to meet with a counselor for additional information and assistance.

CELEBRATING 90 YEARS

California State University System-Eligible for CSU Admissions After High School

Students who were eligible for admission to a CSU when they graduated from high school, but decided to attend a community college, can transfer to some CSUs at any time as long as a 2.0 grade point average or better for all transferable coursework completed at the community college is maintained. High school eligibility is based on test scores, grade point averages, and completion of specific subjects.

Community College Transfer

Students who were not eligible for admission to a CSU when they graduated from high school may be eligible once they have completed a minimum of 60 transferable units with a 2.0 grade point average or better (2.4 for international or non-resident students) and the following additional requirement:

High school graduate prior to 1987:
Complete Area A, sections 1, 2, and 3 ("C" grade or better for each course)
Area B, section 3 ("C" grade or better)

High school graduate 1988 and later:
Complete Area A, sections 1, 2, and 3 ("C" grade or better for each course)
Area B, section 3 ("C" grade or better)
A minimum of 30 semester units of general education with a 2.0 grade point average. This includes items A and B listed above.

GPA requirements are higher for more competitive campuses or majors. Students are highly encouraged to complete lower-division preparatory courses for their major as required by the CSU of their choice, in addition to general education-breadth requirements, and graduation requirements. The CSU will accept a maximum of 70 transferable semester units completed at community colleges. SCC students should meet with a counselor once a semester to plan appropriate course selection.

Lower Division Transfer Patterns (LDTP)

The Lower Division Transfer Patterns (LDTP) is a program sponsored by the California State University (CSU) and supported by the California Community Colleges that presents potential transfer students with the most direct path to a bachelor's degree in the CSU system. The ultimate goal of the LDTP is to identify a set of "road maps" for students to follow that will increase their academic preparation and decrease their time to graduate once they enter the CSU. Students who elect to follow the LDTP option will receive the highest priority for admission to a CSU campus.

Highest priority for admission is defined as a written guarantee that is granted at the time the students accepts the offer of the LDTP agreement from a specific CSU campus subject to satisfactory completion of the requirements of the agreement between the student and the CSU. Students will be asked to complete a distinct set of general education and major courses which are common to all CSU campuses and identify a major program with a CSU campus once they have completed 45 transferable units.

In addition, students will complete a set of major courses specific to the campus they select to meet the required 60 units needed to transfer to CSU as an upper division transfer student. Through CSUMentor (http://www.csumentor.edu/), counselors and students will be able to obtain more information regarding the process of entering into an LDTP for a specific campus and major, "road maps" detailing coursework by campus and major, and a transfer planner for students to track their progress through the LDTP program.

CSU Transferable Courses

Transferable courses can satisfy lower division major preparation, general education, and/or elective requirements. Please meet with a counselor for specific transfer course evaluation.

General Education - Breadth Requirements and Certification

Students will be required to complete a minimum of 48 semester units in general education for a Bachelor's degree at a CSU. Students can complete a maximum of 39 units of general education courses at a community college, but nine units are upper-division courses that must be completed at the CSU.

SCC will complete and send a GE-Breadth Certification to the CSU of their choice, upon request, to verify completion of the 39 units of general education requirements. For full certification, all coursework must have been completed at Sacramento City College or at another Los Rios Community College. Requests for certification should be made at the Admissions and Records Office.

CALIFORNIA STATE UNIVERSITY SYSTEM
General Education-Breadth Requirements
2005-06

The CSU General Education-Breadth Requirements may change each year. It is the student's responsibility to check with a counselor each year for updated CSU General Education-Breadth Requirements.

To complete these requirements, students must have a 2.0 (2.4 for international and non-resident) or higher grade point average (GPA) for all courses taken to complete the General Education-Breadth Requirements. To transfer, students must meet the following requirements:

1. 60 transferable units to include a minimum of 30 units from the General Education-Breadth Requirements,

2. Completion of Area A, sections 1, 2 and 3 and Area B, section 3 with a grade of "C" or better,

3. 2.0 grade point average for all transferable course work completed.

\+ Courses are listed in more than one section in that area, but can only be used once to satisfy the course requirements for that area.

** Courses are listed in other areas, but can only be used once to satisfy any requirement.

AREA		MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
A. Communication - Oral, Written, Critical Thinking (9 units minimum) One course from each numbered section (A1, A2, and A3)					
A1. COMM	301, 302, 311+, 331, 361 Course: _____ College: _____	one			
A2. ENGWR ESLW	300, 480 340 Course: _____ College: _____	one			
A3. COMM ENGWR HIST PHIL SOC	311+, 315, 316 302 400 300**, 320, 322, 325 305 Course: _____ College: _____	one			

AREA		MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
B. Physical Universe and Its Life Forms (9 units minimum) - One course from each numbered section (B1, B2, and B3). One of the science courses in B1 or B2 must have a laboratory component - designated with an (L).					
B1. ASTR CHEM GEOG GEOL PHYS	Physical Universe: 310, 320, 330, 400(L only), 300(L), 305(L), 306(L), 320(L), 330 (331 is the lab), 331(L only), 336(L), 400(L), 401(L),420(L), 421(L), 425(L), 426(L), 484(L) 300 (301 is the lab), 301(L only), 306 302(L), 305 (306 is the lab), 306(L only), 308, 310 (311 is the lab), 311(L only), 345, 350(L) 310, 350(L), 360(L), 410(L), 420(L), 430(L) Course: _____ College:_____	one or one with lab			
B2. ANTH BIOL PSYC	Life Forms: 300 (301 is the lab), 301(L only), 480 305(L), 308 (309 is the lab), 309(L only), 323(L), 342**, 350, 370(L), 402(L), 412(L), 422(L), 430(L), 431(L), 440(L), 464 (465 is the lab), 465(L only) 310, 315, 394 Course: _____ College:_____	one or one with lab			
B3. CISP ECON MATH STAT	Mathematics/Quantitative Reasoning: 440 310, 482 300, 310, 334, 340, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482 300, 480 Course: _____ College:_____	one			
C. Arts, Literature, Philosophy and Foreign Language (9 units minimum) At least one course from each numbered section (C1, C2, and C3). NOTE: Courses designated with an * in area C1or C2 are repeatable for credit, only one can be used to satisfy the general education requirement in Area C.					
C1. ART ARTH COMM ENGLT MUFHL MUIVI MUP MUSM TA	 300, 320, 370*, 380*, 390, 400* 300, 302, 304, 306, 308, 310, 312, 320, 324, 328, 330, 332, 334 305 400, 403** Music: 305, 309, 310, 311, 315, 320, 331, 332, 400, 401, 410, 411, 481, 482 300*, 302, 315*, 325, 345, 365*, 366*, 367*, 368*, 380, 381, 382, 383, 441*, 443*, 445*, 447* 315*, 325*, 335*, 340*, 355*, 402*, 411*, 413*, 415*, 417* 342*, 344 300, 302, 303, 308, 310, 312*, 318+, 320*, 342* (2 units), 350, 360*, 370*, 372, 404, 422, 430*, 437 (2 units), 452*, 454* Course: _____ College:_____	one			

AREA				MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
C. Arts, Literature, Philosophy and Foreign Language (continued)							
C2. ENGCW ENGLT ENGWR ESLR FASHN HIST HUM PHIL SILA TA	 400, 410, 420, 431 303, 304, 310, 311, 320, 321, 325, 331, 332, 334**, 335, 345, 346, 360, 370, 380, 392, 401, 403**, 480, 481, 494 301 340 330 300**, 302**, 305**, 307**, 308**, 360**, 364**, 365**, 373**, 380** 300, 310, 332, 350, 352, 480, 483 300**, 302, 310, 317, 330, 331, 338, 352, 353, 368**, 480, 481, 482** 306, 315, 316, 330 318+	 CANT FARSI FREN GERM JAPAN KOREAN MAND RUSS SPAN TGLG VIET	Foreign Languages: 401, 402, 411, 412 401, 402 401, 402, 411, 412 401, 402, 411, 412 401, 402, 411, 412 401, 402 401, 402, 411, 412 401, 402 401, 402, 411, 412 401, 402 401, 402	one			
Course: _____ College:_____							
C3. Additional courses may be chosen from either section above to make a total of 9 units in Area C. Course:_____ College: _____				one			

AREA	MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
D. Social, Political and Economic Institutions and Behavior (9 units minimum) Two course combination from D1 (D1a or D1b or D1c), and one course from D2.				
D1a. POLS 301+ plus HIST 310 or 311 or 317 or 320 or 321 or 370 or 371 or 483 or 484 Course: _____ College: _____ Course: _____ College: _____	one plus one			
D1b. HIST 320 plus HIST 311 or 321 or 484 Course: _____ College: _____ Course: _____ College: _____				
D1c. HIST 310 or 483 plus HIST 311 or 321 or 484 Course: _____ College: _____ Course: _____ College: _____				
D2. ADMJ 302, 303, 342 ANTH 310, 315, 320, 330, 332, 334, 341, 481 BUS 330, 345 COMM 321, 325, 328, 335, 341, 351, 363 ECON 302, 304, 480 ENGLT 334** ENGWR 384 FCS 312, 314, 320**, 324**, 326, 330** GEOG 310, 312, 320, 322, 480 GERON 300** HIST 300**, 302**, 305**, 307**, 308**, 309, 314, 344, 360**, 364**, 365**, 373**, 380**, 485 JOUR 310, 320 PHIL 368**, 482** POLS 301+, 302, 310, 320, 322, 340, 480, 481 PSYC 300, 320, 335, 340**, 350, 353**, 356**, 360**, 363, 367, 370**, 376, 390**, 392** (4 units min.) 405, 480 SOC 300, 301, 310**, 312, 321, 330, 335**, 341, 343, 344**, 344.1** to 344.6** (must complete 3 units total), 345, 375, 480 SOCSC 300, 320, 325, 330, 332, 335, 336, 350, 352	one			
Course: _____ College: _____				
E. Lifelong Understanding (3 units minimum)				
BIOL 342** BUS 320 FCS 304, 320**, 324**, 330**, 332, 340, 344, 480 GERON 300**, 302 HEED 300 HCD 310 HSER 375 PE (one unit maximum) any CSU transferable course from: ADAPT, DANCE, FITNS, PACT, SPORT, TMACT PSYC 340**, 342, 353**, 356**, 358, 360**, 370**, 374, 390**, 392** (2 units), 410, 410.1 to 410.6 (must complete all modules for 3 units total) SOC 310**, 335**, 344**, 344.1** to 344.6** (must complete 3 units total)	3 units			
Course: _____ College: _____				

University of California System

Admission Requirements

There are several ways to meet the University's minimum admission requirements for transfer students, as described below. The path you use depends upon the degree to which you satisfy UC's minimum eligibility requirements for freshmen at the time of graduation from high school.

1. If you were eligible for admission to the University when you graduated from high school, meaning you 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 you are eligible to transfer if you have a C (2.0) average in your transferable college coursework.

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

3. If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, you must:

    a. Complete 60 semester (or 90 quarter) units of transferable college credit with a grade point average of at least 2.4 (2.8 or higher for non-resident students), 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, and the physical and biological sciences.

Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC will satisfy option 3B above of the admission requirements.

UC Transferable Courses

Transferable courses can satisfy lower division major preparation, general education, and/or elective requirements. Please meet with a counselor for specific transfer course evaluation.

General Education Requirements and Certification

General education requirements are designed to give University undergraduates a broad background in all major academic disciplines. Every UC campus and school of/discipline has its own general education requirement. Students also have the option of completing the Intersegmental General Education Transfer Curriculum (IGETC).

The IGETC is most helpful to students who want to keep their options open, those who know they want to transfer, but have not yet decided upon a particular institution, campus or major. Certain students, however, will not be well served by following the IGETC. Students who intend to transfer into a major that requires extensive lower division preparation, such as engineering or the physical and natural sciences, should concentrate on completing the many prerequisites for the major that the college requires to determine eligibility for admission. Your counselor can advise you on which path is best for you.

Completion of all the requirements in the IGETC will permit a student to transfer to either a University of California or California State University system without the need, after transfer, to take additional lower-division general education courses. Otherwise, you will be required to satisfy the specific lower division general education requirements of the college or school you attend. For IGETC Certification, the course requirements for all areas must be completed. All courses must be completed with a "C" grade or better. Student must meet with a counselor to complete the IGETC Certification.

Transfer Information

Intersegmental General Education Transfer Curriculum (IGETC)

Intersegmental General Education Transfer Curriculum (IGETC)
University of California or California State University
2005-06

THE IGETC REQUIREMENTS MAY CHANGE EACH YEAR.

It is the student's responsibility to check with a counselor each year for updated IGETC information. See a counselor prior to transfer concerning certification.

Completion of all of the requirements in the IGETC will permit a student who transfers from a community college to a campus in either the California State University or University of California systems to satisfy that campus' lower-division general education requirements prior to transfer. CSU transfer students may continue to complete the alternative CSU General Education pattern certifiable by SCC.

The courses required for ALL AREAS must be completed before the IGETC can be certified by a counselor. **All courses must be completed with a "C" grade or better.**

+ Courses designated with a cross (+) are listed in more than one section, but can be used **only once in one section** to satisify a requirement.

AREA		MIN. COURSES	COMPLETED	IN PROGRESS	NEED
Area 1- English Communication For CSU - three courses required, one course from each area (1A, 1B and 1C) For UC - two courses required, one from Areas 1A and one from 1B					
Area 1A: ENGWR	**English Composition** (one course required): 300, 480 Course: _____ College: _____	one			
Area 1B: COMM ENGWR PHIL SOC	Critical Thinking - English Composition (one course required) 316 302 322 305 Course: _____ College: _____	one			
Area 1C: COMM	**Oral Communication** - CSU ONLY (one course required) 301, 311, 331, 361 Course: _____ College: _____	one			
A**rea 2 - Mathematical Concepts and Quantitative Reasoning** (one course required)					
CISP ECON MATH STAT	440 310, 482 300, 340, 350, 351, 370, 400, 401, 402, 410, 420, 482 300, 480 Course: _____ College: _____	one			
Area 3 - Arts and Humanities (9 units required) - 3 courses with at least one from the Arts and one from Humanities.					
Area 3A: ARTH COMM ENGLT MUFHL TA	**Arts:** 300, 302, 304, 306, 308, 310, 312, 320, 324, 328, 330, 332 305 400 305, 309, 310, 311, 315, 320, 331, 332, 400, 401, 410, 411, 481, 482 300, 302, 303, 308, 310, 312, 320 Course: _____ College: _____	one			

AREA				MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
Area 3 - Arts and Humanities continued							
Area 3B: ANTH ENGLT ENGWR CANT FREN GERM	**Humanities:** 330+ 303, 304, 310, 311, 320, 321, 325, 331, 332, 334, 335, 345, 346, 360, 380, 392, 401, 480, 481 301 **Foreign Languages:** 411, 412 411 411	HIST HUM PHIL TA JAPAN MAND SPAN	300, 302, 305, 360, 364, 365, 373 300, 310, 332, 350, 352, 480, 483 300, 302, 310, 317, 330, 331, 338, 352, 353, 368, 480, 481, 482 318 411, 412 411, 412 411, 412	one			
	Course: _____ College: _____						
Area 3C: A course may be chosen from either Area 3A - Arts or from Area 3B - Humanities to make a total of 9 units for Area 3 SCC Course: _____ Course: _____ College: _____				one			
Area 4 - Social and Behavioral Sciences (9 units required) - Three courses from at least **two disciplines**. NOTE: * Indicates that this course **may not be used** for AREA 4 if the course is used for CSU U.S. History, Constitution, and American Ideals requirement.							
ANTH BUS COMM ECON ENGWR FCS GEOG GERON HIST JOUR POLS PSYC SOCSC SOC	310, 315, 320, 330+, 332, 334, 481 345 321, 325, 328, 351, 363 302, 304, 480 384 312, 314, 320, 324, 326, 330 310, 312, 320, 322, 480 300 307, 308, 309, 310*, 311*, 314, 317*, 320*, 321*, 344, 370*, 371*, 380, 483*, 484*, 485 310, 320 301*, 302, 310, 320, 322, 340, 480, 481 300, 320, 340, 350, 356, 360, 363, 367, 370, 376, 390, 480 300, 320, 325, 330, 332, 335, 336, 350 300, 301, 310, 312, 321, 335, 341, 480 Course: _____ College: _____			one			

AREA		MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
Area 5 - Physical and Biological Sciences (7-9 units required) One Physical Science course and one Biological Science course; at least one course must include alaboratory. Courses with a (L) contain a laboratory.					
Area 5A: ASTR CHEM GEOG GEOL PHYS	**Physical Science:** 310, 320, 330, 400 (L only) 300 (L), 305 (L), 306 (L), 320 (L), 330, 331 (L only), 336 (L), 400 (L), 401 (L), 410 (L), 420 (L), 421 (L), 425 (L), 426 (L) 300, 301 (L only), 306 302 (L), 305, 306 (L only), 308, 310, 311 (L only), 345 310, 350 (L), 360 (L), 410 (L), 420 (L), 430 (L) Course: _____ College: _____	one or one with lab			
Area 5B: ANTH BIOL PSYC	**Biological Science:** 300, 301 (L only), 480 305 (L), 308, 309 (L only), 323 (L), 342, 350, 370 (L), 402 (L), 412 (L), 422 (L), 430 (L), 431 (L), 440 (L), 464, 465 (L only) 310, 315 Course: _____ College: _____	one or one with lab			
AREA 6 (UC REQUIREMENT ONLY) - Language Other Than English Completion of a college level foreign language course: CANT 401, FARSI 401, FREN 401, GERM 401, JAPAN 401, KOREAN 401, MAND 401, RUSS 401, SPAN 401, TGLG 401, VIET 401 OR SILA 305 OR completion of 2 years of the same foreign language in high school level work with a grade of "C" or better OR earn a score of 3 or higher on the foreign Language Advanced Placement test OR 550 on the college Board Achievement Test in Foreign Language Course: _____ College: _____		one or meets one of the other req.			
(NOT PART OF IGETC) **CSU Graduation Requirement in U.S. History, Constitution, and American Ideals, may be completed prior to transfer** Six units required, choose one two-course combination from section 1 or 2 or 3: 1. POLS 301 **PLUS** HIST 310, 311, 317, 320, 321, 370, 371, 483, 484, or 2. HIST 320 **PLUS** HIST 311, 321, 484, or 3. HIST 310 or 483 **PLUS** HIST 311, 321, 484 Course: _____ College: _____ Course: _____ College: _____		6 units			

Course Designators

Course designators are used to identify all course offerings in a specific subject/department (i.e., business courses have a "BUS" designator). The following reference list is for your convenience.

ACCT - Accounting
ADAPT - Adaptive Physical Education (See Physical Education)
ADMJ - Administration of Justice
AERO - Aeronautics
AH - Allied Health
ANTH - Anthropology
ARABIC - Arabic (See Foreign Languages)
ART - Art
ARTH - Art History
ASTR - Astronomy
BIOL - Biology
BUS - Business
BUSTEC - Business Technology
CANT - Cantonese/Chinese (See Foreign Languages)
CHEM - Chemistry
CISA - Computer Information Science - Applications
CISC - Computer Information Science - Core
CISN - Computer Information Science - Network
CISP - Computer Information Science - Programming
CISS - Computer Information Science - Security
CISW - Computer Information Science - Web
COMDE - Community Development
COMM - Communication
COSM - Cosmetology
DANCE - Dance (See Physical Education)
DAST - Dental Assisting
DHYG - Dental Hygiene
ECE - Early Childhood Education
ECON - Economics
EDT - Engineering Design Technology
ENGR - Engineering
ENGCW - English - Creative Writing
ENGED - English - Education
ENGLB - English - Laboratory
ENGLT - English - Literature
ENGRD - English - Reading
ENGWR - English - Writing
ESL - English as a Second Language
ESLG - English as a Second Language - Grammar
ESLL - English as a Second Language - Listening
ESLP - English as a Second Language - Pronunciation
ESLR - English as a Second Language - Reading
ESLW - English as a Second Language - Writing
ET - Electronics Technology
EVT - Electric Vehicle Technology
FARSI - Farsi (See Foreign Languages)
FASHN - Fashion (See Fashion and Interior Design)
FCS - Family and Consumer Science
FITNS - Fitness (See Physical Education)
FLTEC - Flight Technology (see Aeronautics)
FREN - French (See Foreign Languages)
GCOM - Graphic Communication
GEOG - Geography
GEOL - Geology
GERM - German (See Foreign Languages)
GERON - Gerontology
HCD - Human Career Development
HEED - Health Education
HIST - History
HUM - Humanities
HSER - Human Services
IDES - Interior Design (See Fashion and Interior Design)
JAPAN - Japanese (See Foreign Languages)
JOUR - Journalism
KOREAN - Korean (See Foreign Languages)
LIBR - Library
LIBT - Library and Information Technology
MAND - Mandarin-Chinese (See Foreign Languages)
MATH - Mathematics
MET - Mechanical-Electrical Technology
MGMT - Management (See Business)
MIT - Metals Industry Technology
MKT - Marketing (See Business)
MTRCL - Motorcycle Maintenance Technician
MUFHL - Music Fundamentals/History and Literature (See Music)
MUIVI - Instrumental/Voice Instruction (See Music)
MUP - Music Performance (See Music)
MUSM - Specializations in Music (See Music)
NURSE - Nursing, Registered
OTA - Occupational Therapy Assistant
PACT - Personal Activity (See Physical Education)
PET - Physical Education Theory (See Physical Education)
PHIL - Philosophy
PHOTO - Photography
PHYS - Physics
POLS - Political Science
PSYC - Psychology
PTA - Physical Therapist Assistant
RAILR - Railroad Operations
RE - Real Estate (See Business)
RECR - Recreation
RUSS - Russian (See Foreign Languages)
RVT - Recreational Vehicle Technology
SGVT - Student Government
SILA - Sign Language Studies
SOC - Sociology
SOCSC - Social Science
SPAN - Spanish (See Foreign Languages)
SPORT - Sports (See Physical Education)
STAT - Statistics
SURVY - Survey (See Engineering Design Technology)
TA - Theatre Arts
TECH - Technology
TGLG - Tagalog (See Foreign Languages)
TMACT - Team Activities (See Physical Education)
VIET - Vietnamese (See Foreign Languages)
VN - Vocational Nursing
WEXP - Work Experience and Internships

College Terms

The following is offered as an explanation of common terms used at Sacramento City College and other community colleges and universities:

A.A., ASSOCIATE IN ARTS: general degree granted by California Community Colleges.

A.S., ASSOCIATE IN SCIENCE: general degree granted by California Community Colleges having more emphasis on two-year vocational training than the A.A. degree.

BACHELOR'S DEGREE: degree granted by four-year colleges, usually the Bachelor of Arts (B.A.) or the Bachelor of Science (B.S.).

CLASS SCHEDULE: the listing of courses including hours, instructors, and room assignments to be offered each semester.

COMMUNITY SERVICES CLASSES: fully fee-funded avocational and recreational classes. These classes carry no credit value.

COUNSELOR: trained staff member assigned to assist students with personal, career, avocational, and educational planning and development.

CREDIT (graded) COURSE: course for which units are granted.

CREDIT-NO CREDIT GRADING: a grading system allowing a course to be taken for a grade of Credit or No Credit rather than for a letter grade.

ELECTIVES: courses elected by the student which do not fulfill any specific requirement but provide units toward the degree.

GENERAL EDUCATION OR BREADTH: certain group of courses required of all degree candidates regardless of their major. These differ for the A.A. and A.S. degrees and for transfer.

GRADE POINT AVERAGE (G.P.A.): the average of a student's grades.

LOWER DIVISION: the first two years of college work, i.e., freshman and sophomore years and/or courses. By law, only lower division work can be offered at SCC.

MAJOR: the major field of study a student plans to pursue, e.g., biology, nursing.

MATRICULATION: an agreement between the college and each student as to the steps both will take to help ensure the student succeeds.

MINOR: the field of study a student plans to pursue in addition to the major but with less emphasis. A minor is not usually required.

NON-CREDIT (UNGRADED) COURSE: course for which no units are given.

PREREQUISITE: a requirement which must be completed prior to enrollment in a course. If required, it is listed in the course description.

SEMESTER UNIT: In general, a semester unit represents one hour of lecture or three hours of laboratory per week for a semester. Graduation requires 60 semester units. One semester unit is equivalent to one and a half quarter units.

TRANSCRIPT OF RECORD: copy of student's college records prepared by the Admissions and Records office.

UPPER DIVISION: the last two years of college work, i.e., junior and senior years and/or courses.

Course Numbering System

Sacramento City College has adopted a standardized course numbering system which is described below. The numbers are designed to provide students with general information regarding the focus and intent of courses.

1-99	Courses numbered 1 through 99 are credit courses that are considered developmental or basic skills and are not acceptable for the Associate Degree or transfer credit.
100-299	Courses numbered 100 through 299 are applicable to the Associate Degree and Certificates.
300-499	Courses numbered 300 through 499 are articulated for transfer with four-year institutions and are intended to meet major, general education or elective credit requirements. These courses are also applicable to the Associate Degree, Career Certificate, and Certificate of Completion.

Transfer Credit

Courses accepted for transfer by the University of California (UC) and/or California State University (CSU) are listed with the course description and are identified in the "acceptable for credit" area.

Students who have questions regarding transferability of credit for specific courses to specific institutions should consult with a counselor.

Transferable Courses

Transferable courses can satisfy lower division major preparation, general education, and/or elective requirements. Please meet with a counselor for specific transfer course evaluation.

California Articulation Number (CAN) System

NOTE: The California State University campuses will continue to use the CAN system until they develop their own new numbering system to identify commonly taught courses. The University of California campuses do not participate in the CAN system.

The California Articulation Number (CAN) identifies some transferable courses commonly taught in each academic discipline on college campuses throughout the state.

CAN courses are identified in each participating college's catalog. College catalogs are available in the Transfer Center or at each college's catalog web site. The system assures that CAN courses at one participating campus will be accepted as a comparable CAN course at another participating campus. Example: Economics 300 (which is also CAN ECON 2) at SCC will be accepted as a comparable course for Economics 1A (which is also CAN ECON 2) at CSU, Sacramento.

Transferable Courses

Transferable courses can satisfy lower division major preparation, general education, and/or elective requirements. Please meet with a counselor for specific transfer course evaluation.

Course Number	Sacramento City College
CAN AJ 2	ADMJ 300
CAN AJ 4	ADMJ 320
CAN AJ 8	ADMJ 330
CAN ANTH 2	ANTH 300
CAN ANTH 4	ANTH 310
CAN ANTH 6	ANTH 320
CAN ART 2	ARTH 304 & 306
CAN ART 4	ARTH 308
CAN ART 6	ART 390
CAN ART 8	ART 300
CAN ART 10	ART 332 or 334
CAN ART 12	ART 400
CAN ART 14	ART 320
CAN ART 16	ART 370
CAN ART 18	PHOTO 301
CAN ART 20	ART 368
CAN ART 24	ART 304
CAN BIOL 2	BIOL 402
CAN BIOL 4	BIOL 422
CAN BIOL 6	BIOL 412
CAN BIOL 10	BIOL 430
CAN BIOL 12	BIOL 431
CAN BIOL 14	BIOL 440
CAN BIOL SEQ A	BIOL 402 & 422 & 412
CAN BIOL SEQ B	BIOL 430 & 431
CAN BUS 2	ACCT 301
CAN BUS 4	ACCT 311
CAN BUS 8	BUS 340
CAN BUS SEQ A	ACCT 301 & 311
CAN CHEM 2	CHEM 400
CAN CHEM 4	CHEM 401
CAN CHEM 6	CHEM 305
CAN CHEM 8	CHEM 306
CAN CHEM 12	CHEM 410
CAN CHEM SEQ A	CHEM 400 & 401
CAN CHEM SEQ B	CHEM 305 & 306
CAN CHIN 2	MAND 401
CAN CHIN 4	MAND 402
CAN CHIN SEQ A	MAND 401 & 402
CAN CSCI 4	CISP 342
CAN CSCI 8	CISP 320
CAN CSCI 10	CISP 318
CAN CSCI 16	CISP 360
CAN CSCI 18	CISP 400
CAN CSCI 24	CISP 430
CAN CSCI 26	CISP 440
CAN DRAM 6	COMM 371
CAN DRAM 8	TA 350
CAN DRAM 10	TA 422
CAN DRAM 12	TA 420
CAN DRAM 14	TA 437
CAN DRAM 18	TA 300

Course Number	Sacramento City College
CAN DRAM 22	TA 351
CAN ECON 2	ECON 302
CAN ECON 4	ECON 304
CAN ENGL 2	ENGWR 300
CAN ENGL 4	ENGWR 301
CAN ENGL 6	ENGCW 400
CAN ENGL 8	ENGLT 310
CAN ENGL 10	ENGLT 311
CAN ENGL 14	ENGLT 320
CAN ENGL 16	ENGLT 321
CAN ENGL 18	ENGLT 303
CAN ENGL SEQ A	ENGWR 300 & 301
CAN ENGL SEQ B	ENGLT 310 & 311
CAN ENGL SEQ C	ENGLT 320 & 321
CAN ENGR 2	ENGR 312
CAN ENGR 4	ENGR 412
CAN ENGR 8	ENGR 422
CAN ENGR 10	ENGR 310
CAN ENGR 12	ENGR 400
CAN FCS 2	FCS 340
CAN FCS 4	ART 320
CAN FCS 6	FASHN 320
CAN FCS 12	FCS 320
CAN FCS 14	FCS 312
CAN FREN 2	FREN 401
CAN FREN 4	FREN 402
CAN FREN 8	FREN 411
CAN FREN 10	FREN 412
CAN FREN SEQ A	FREN 401 & 402
CAN FREN SEQ B	FREN 411 & 412
CAN GEOG 2	GEOG 300
CAN GEOG 4	GEOG 310
CAN GEOL 2	GEOL 302
CAN GEOL 4	GEOL 310 & 311
CAN GERM 2	GERM 401
CAN GERM 4	GERM 402
CAN GERM 8	GERM 411
CAN GERM SEQ A	GERM 401 & 402
CAN GERM SEQ B	GERM 411 & 412
CAN GOVT 2	POLS 301
CAN HIST 2	HIST 300
CAN HIST 4	HIST 302
CAN HIST 8	HIST 310
CAN HIST 10	HIST 311
CAN HIST 14	HIST 307
CAN HIST SEQ A	HIST 300 & 302
CAN JAPN 2	JAPAN 401
CAN JAPN 4	JAPAN 402
CAN JAPN 8	JAPAN 411
CAN JAPN 10	JAPAN 412
CAN JAPN SEQ A	JAPAN 401 & 402
CAN JAPN SEQ B	JAPAN 411 & 412
CAN JOUR 2	JOUR 300
CAN JOUR 4	ENGWR 384
CAN MATH 2	MATH 310
CAN MATH 8	MATH 334
CAN MATH 16	MATH 370
CAN MATH 18	MATH 400
CAN MATH 20	MATH 401
CAN MATH 22	MATH 402
CAN MATH 24	MATH 420
CAN MATH 26	MATH 410
CAN MATH 30	MATH 350
CAN MATH 32	MATH 351
CAN MATH 34	MATH 340
CAN MATH SEQ B	MATH 400 & 401
CAN MATH SEQ C	MATH 400 & 401 & 402
CAN MATH SEQ D	MATH 350 & 351
CAN MUS 2	MUFHL 400
CAN MUS 4	MUFHL 401
CAN MUS 8	MUFHL 310
CAN MUS 10	MUFHL 311
CAN MUS SEQ A	MUFHL 400 & 401
CAN PHIL 2	PHIL 300
CAN PHIL 4	PHIL 310
CAN PHIL 6	PHIL 320
CAN PHIL 8	PHIL 330
CAN PHIL 10	PHIL 331
CAN PHIL SEQ A	PHIL 330 & 331
CAN PHYS 2	PHYS 350
CAN PHYS 4	PHYS 360
CAN PHYS 8	PHYS 410
CAN PHYS 12	PHYS 420
CAN PHYS 14	PHYS 430
CAN PHYS SEQ A	PHYS 350 & 360
CAN PHYS SEQ B	PHYS 410 & 420 & 430
CAN PSY 2	PSYC 300
CAN PSY 6	PSYC 335
CAN PSY 8	PSYC 335
CAN PSY 10	PSYC 310
CAN REC 2	RECR 300
CAN RUSS 2	RUSS 401
CAN RUSS 4	RUSS 402
CAN RUSS SEQ A	RUSS 401 & 402
CAN SOC 2	SOC 300
CAN SOC 4	SOC 301
CAN SPAN 2	SPAN 401
CAN SPAN 4	SPAN 402
CAN SPAN 8	SPAN 411
CAN SPAN 10	SPAN 412
CAN SPAN SEQ A	SPAN 401 & 402
CAN SPAN SEQ B	SPAN 411 & 412
CAN SPCH 4	COMM 301
CAN SPCH 6	COMM 311
CAN SPCH 8	COMM 321
CAN SPCH 10	COMM 331
CAN STAT 2	STAT 300

Degrees, Certificates, Courses, and Transfer Majors

Associate Degree

The Associate Degree may be obtained by the completion of all required courses for a major (from 18 to approximately 30 plus units), fulfill general education requirements, satisfy competencies, and sufficient electives to meet a minimum total of 60 units. Degrees are designated by "A.A." for Associate in Arts and "A.S." for Associate in Science.

Certificates

Career Certificate (18 units or more) and the Certificate of Completion (17.5 units or less) are offered to students completing program requirements.

Career Certificates are intended to certify that students completing all required courses for a major are prepared to enter the careers designated on their certificates. Career Certificates require 18 units or more with grades of "C" or better in each course. A minimum of 12 units must be completed at Sacramento City College. Career Certificates are designated with "CC."

Certificates of Completion are intended to certify that students completing all required courses for a major are prepared to meet specific occupational needs, upgrade skills, or for advancement in an existing career. Certificates of Completion require 17.5 units or less with grades of "C" or better in each course. The certificate requires completion of all courses listed in the Required Program of study. Certificates of Completion are designated with "COC."

For all Certificates in Levels 1 and 2, all units must be completed at Sacramento City College. For all Certificates in Level 3, 12 units must be completed at Sacramento City College.

Level 1, 3-6 units (all units must be completed at SCC)

Level 2, 7-11 units (all units must be completed at SCC)

Level 3, 12-17.5 units (a minimum of 12 units must be completed at SCC)

Sacramento City College offers the following:

Accounting (A.S., CC)
- Bookkeeping - Junior Entry Level (CC)
- Bookkeeping - Senior Entry Level (CC)

Administration of Justice (A.A.)
- Correctional Services (A.S., CC)
- Police Services (A.S., CC)
- Private Security Services Management (A.S., CC)

Aeronautics
- Airframe (A.S., CC)
- Powerplant (A.S., CC)
- Combined Airframe and Powerplant (A.S., CC)
- Aircraft Structure Manufacture and Repair (A.S., CC)
- Flight Technology (A.S., CC)
- Nondestructive Testing Technician (CC)

Allied Health (courses only)

Anthropology (A.A.)

Art (A.A.)

Astronomy (courses only)

Biology (A.S.)
- Field Ecology (CC)

Business
- Business, General (A.S.)
- Business, Transfer (A.A.)
- Bookkeeping and Office Management (A.S., CC)
- Customer Service (COC, Level 1)
- Management (A.S., CC)
- Small Business Management (A.S., CC)
- Retail Management (CC)
- Marketing (A.S., CC)
- Marketing, Advertising (A.S.)
- Office Administration
- Clerical General Office, Level A (CC)
- Introduction to Computerized Office Technologies, Level B (CC)
- Business Operations and Management Technology, Level C (CC)
- Capstone Office Simulation with an Internship, Level D (A.S., CC)
- Real Estate (A.S., CC)

Chemistry (A.S.)

Communication (A.A.)

Community Leadership Development (courses only)

Community Studies (Emphasis on Direct Services) (A.A., CC)

- Computer Information Science
  - Computer Science (A.S., CC)
  - Management Information Science (A.S., CC)
  - Database Management (CC)
  - Programming (CC)
  - Information Processing (A.S.)
  - Information Processing Specialist (CC)
  - Information Processing Technician (COC, Level 3)
  - Word Processing Technician (COC, Level 2 or 3)
  - Information Systems Security (A.S., CC)
  - Network Administration (A.S., CC)
  - Network Design (A.S., CC)
  - Advanced CISCO Networking (COC, Level 3)
  - Microcomputer Technician (also listed under Electronics Technology) (A.S., CC)
  - PC Support (CC)
  - Web Developer (CC)
  - Active Server Pages Developer (COC, Level 3)
  - Webmaster, Level 1 (CC)
- Cosmetology (A.S., CC)
  - Art & Science of Nail Technology (COC, Level 3)
- Dental Assisting (A.S., CC)
- Dental Hygiene (A.S.)
- Early Childhood Education
  - Early Childhood (A.A., CC)
  - Infant Care and Education (A.A.)
  - Infant Care and Education Teacher (CC)
  - Master Teacher (A.A., CC)
  - Site Supervisor (A.A., CC)
  - Teacher Certification (CC)
  - Associate Teacher (COC, Level 3)
  - Family Child Care (COC, Level 3)
  - School-Age Care and Education (A.A.)
  - School-Age Care and Education Teacher (CC)
  - School-Age Site Supervisor (A.A.)
  - School-Age Assistant Teacher (COC, Level 2)
  - School-Age Associate Teacher (COC, Level 3)
  - School-Age Master Teacher (CC)
  - School-Age Teacher (CC)
- Economics (courses only)
- Electric Vehicle Technology (CC)
- Electronics Technology
  - Automated Systems Technician (A.S., CC)
  - Electronics Facilities Maintenance Technician (A.S., CC)
  - Electronics Mechanic (CC)
  - Microcomputer Technician (also listed under Computer Science) (A.S., CC)
  - Telecommunications Technician (A.S., CC)
- Engineering (transfer major only)
- Engineering Design Technology (A.S., CC)
  - Architectural/Structural Drafting (A.S., CC)
  - Electric (Power-Lighting Systems) (A.S., CC)
  - HVAC Systems Design (A.S., CC)
  - Mechanical (HVAC/Plumbing Systems) (A.S., CC)
  - Surveying (Geomatics) (CC)
- English (A.A.)
- English as a Second Language (courses only)
- Ethnic Studies (A.A.)
  - African-American Emphasis
  - Asian-American Emphasis
  - Mexican-American Emphasis
  - Native-American Studies
- Family and Consumer Science (A.A.)
- Fashion and Interior Design
  - Custom Apparel Construction and Alterations (A.A., CC)
  - Fashion Design and Production* (A.A., CC)
  - Interior Design Sewing* (A.A., CC)
  - Production Sewing (COC, Level 2)
- Fine Arts (A.A.)
- Foreign Languages (courses only)
- General Education, Transfer (A.A.)
- General Studies, Non-Transfer (A.A.)
- Geography (courses only)
- Geology (courses only)
- Gerontology (A.S., CC)
- Graphic Communication (A.S., CC)
  - Digital Illustration (COC, Level 1)
  - Graphic Design Production (COC, Level 3)
  - Image Editing (COC, Level 1)
  - Page Layout (COC, Level 1)
  - Pre-Press (COC, Level 1)
  - Web Design Basics (COC, Level 2)
- Health Education (courses only)
- History (A.A.)
- Honors (courses only)
- Human Career Development (courses only)
- Human Services (courses only)
- Humanities (A.A.)
- Independent Studies (courses only)
- Industrial Technology (A.A.)
- Instructional Assisting
  - Bilingual/Bicultural Emphasis (A.A., CC)
  - General (A.A., CC)
  - Special Education (A.A., CC)
- International Studies (A.A.)
- Journalism (A.A.)
  - Publications Specialist (CC)
- Liberal Studies (A.A.)
- Liberal Studies for Elementary Teachers (A.A.)
- Library (courses only)
- Library and Information Technology (A.S., CC)
- Mathematics (A.S.)
- Mechanical-Electrical Technology (A.S., CC)
  - Vending and Automatic Merchandising (A.S., CC)
  - Machinery Systems Technician (CC)
  - Wastewater Treatment Plant Operation (A.S., CC)
- Metals Industry Technology (courses only)
- Motorcycle Maintenance Technician (A.S., CC)
- Music
  - General (A.A.)
  - Commercial Music (A.A., CC)
    - Audio Production Emphasis
    - Music Business Management Emphasis
    - Performance Emphasis
    - Songwriting/Arranging Emphasis

New programs are indicated with an asterisk (*) and are pending State approval.

Nursing
- Registered Nursing (A.S.)
- Vocational Nursing (A.S., CC)

Occupational Therapy Assistant (A.S.)
Philosophy (transfer major only)
Photography (A.A., COC, Level 3)
- Commercial Photography (CC)
- Digital Photography (CC)
- Fine Art Photography (CC)
- Photo-Journalism (CC)
- Portrait and Wedding Photography (CC)

Physical Education (A.A.)
- Athletic Training, Transfer (A.A.)
- Physical Education, Transfer (A.A.)

Physical Therapist Assistant (A.S.)
Physics (courses only)
Political Science (transfer major only)
Pre-professional Majors (transfer majors only)
Psychology (A.A.)
Railroad Operations (A.S., CC)
Recreation (courses only)
Science (A.S.)
Sign Language Studies (courses only)
Social Sciences (A.A.)
Sociology (A.A.)
Statistics (courses only)
Student Government (courses only)
Technology (courses only)
Theatre Arts
- Acting-Directing Emphasis (A.A.)
- Technical Production Emphasis (A.A.)

Women's Studies (A.A.)
Work Experience (courses only)

Programs of Study and Course Descriptions

WE'VE GOT YOUR NUMBER!

Sacramento City College and the Los Rios Community College District converted to a new Course Numbering system three years ago.

The coures are the same, just the numbers have changed. The UC and the CSU systems acknowledged our new course numbers. To help you become familiar with the new course numbers, a Course Conversion Table is available at http://www.scc.losrios.edu.

A complete Course Numbering Guide is available at http://www.scc.losrios.edu/~scounsel

CELEBRATING
90
YEARS

Accounting ACCT

Associate in Science Degree

Career Certificate

Accounting, Degree and Career Certificate

Bookkeeping - Junior Entry Level, Career Certificate

Bookkeeping - Senior Entry Level, Career Certificate

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

The Accounting curriculum provides training for employment in all sizes and types of business firms including government agencies. Students should have an aptitude for conceptual understanding as well as computational work and be willing to undertake the intensive study necessary for success.

Required Program

Business Core:	**Units**
ACCT 101, Fundamentals of College Accounting, or ACCT 301, Financial Accounting	3-4
BUS 106, Business Mathematics, or ECON 310, Economic Statistics	3
BUS 300, Introduction to Business.	3
BUSTEC 300.2, Beginning Keyboarding/ Applications: Basic Document Formatting	1
CISC 300, Computer Familiarization	1
Total Core Units	**11-12**

Select any nine (9) units from the following:

BUS 345, Law and Society, or BUS 340, Business Law	3
BUS 100, English for the Professional	3
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Data Base Management	1
ECON 100, Introduction to Economics	3
ECON 302, Principles of Macroeconomics	3
MGMT 372, Human Relations and Organizational Behavior	3
MGMT 304, Introduction to Management Functions	3
Subtotal Units	**20-21**

Concentration Requirements:

ACCT 101, Fundamentals of College Accounting	3
ACCT 103, Intermediate Accounting - Part I	3
ACCT 104, Intermediate Accounting - Part II.	3
ACCT 301, Financial Accounting	4
ACCT 311, Managerial Accounting	4
ACCT 341, Accounting on the Microcomputer	2

Plus any six (6) units from the following:

ACCT 107, Auditing	3
ACCT 111, Cost Accounting	3
ACCT 151, Governmental Auditing	3
ACCT 153, Governmental Accounting	3
Total Concentration Units	**25**
Total Units Required	**45-46**

Both ACCT 301 and ACCT 101 are required for this program. Both courses satisfy the Core and Concentration Requirements.

Suggested Electives
ACCT 126, ACCT 299, CISC 320.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate in Accounting may be obtained by completion of the 25 units in the Total Concentration Requirements (including both ACCT 101 and 301) with grades of "C" or better.

Bookkeeping - Junior Entry Level

Career Certificate

Completion of the requirements for this Certificate will provide the skills necessary for an entry-level bookkeeping job. It will also provide adequate awareness of where and how the bookkeeper's job fits within an organization's goals and objectives.

Career Opportunities: Entry level accounting clerk or bookkeeper in any type of business (profit or non-profit, private or government).

Required Program	Units
ACCT 101, Fundamentals of College Accounting	3
ACCT 301, Financial Accounting	4
ACCT 341, Accounting on the Microcomputer	2
BUS 300, Introduction to Business	3
CISC 300, Computer Familiarization	1
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
A minimum of 3 units from the following:	3
BUS 106, Business Mathematics (1 - 3)	
Total Units Required	**19**

Bookkeeping - Senior Entry Level

Career Certificate

Completion of the requirements for this Certificate will provide the skills necessary for an entry-level bookkeeping job. It will also provide adequate awareness of where and how the bookkeeper's job fits within the organization's goals and objectives. It will also provide the opportunity for more rapid advancement within the bookkeeping/accounting department than the Junior Entry Level Certificate.

Career Opportunities: Entry level accounting clerk or bookkeeper in any type of business (profit or non-profit, private or government) with opportunity for quicker advancement and responsibility than that of the Junior Entry Level Bookkeeper Certificate.

Required Program	Units
ACCT 101, Fundamentals of College Accounting	3
ACCT 301, Financial Accounting	4
ACCT 341, Accounting on the Microcomputer	2
BUS 300, Introduction to Business	3
CISC 300, Computer Familiarization	1
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
ACCT 311, Managerial Accounting	4
ACCT 103, Intermediate Accounting - Part I	3
BUS 310, Business Communications	3
CISA 311, Intermediate Electronic Spreadsheets	1
A minimum of 3 units from the following:	3
BUS 106 Business Mathematics (1 - 3)	
Total Units Required	**30**

Accounting (ACCT)

ACCT 101 Fundamentals of College Accounting — 3 Units

Formerly: ACCT 60

Prerequisite: None
54 hours Lecture
This course is the study of accounting practices, procedures, and techniques as an information gathering system for para- professionals. Emphasis is on the techniques used to calculate, record, summarize, and present financial data. Major topics include journal, ledgers, working papers, adjustments, financial statements, payroll, inventories, and long-lived assets. This class would be valuable to owners of small businesses. This course is required for the Accounting certificate and non-transfer Accounting majors and an excellent preparation course for ACCT 301 and ACCT 103.

ACCT 103 Intermediate Accounting- Part I — 3 Units

Formerly: ACCT 91A

Prerequisite: ACCT 301 with a grade of "C" or better.
54 hours Lecture
This course is a continuing study of financial accounting theory as related to cash and cash flows, receivables, inventories, plant and equipment, and current liabilities. This course is not intended for transfer.

ACCT 104 Intermediate Accounting - Part II — 3 Units

Formerly: ACCT 91B

Prerequisite: ACCT 103 with a grade of "C" or better.
54 hours Lecture
This course is a continuing study of financial accounting theory with special emphasis on intangible assets, stock, long-term liabilities, capital, retained earnings and dividends, income tax and analysis of financial statements. This course is not intended for transfer.

ACCT 107 Auditing — 3 Units

Formerly: ACCT 93

Prerequisite: ACCT 103 with a grade of "C" or better.
54 hours Lecture
This course covers procedures and practices used in the verification of accounting records and financial statements. External auditing functions will be stressed.

ACCT 111 Cost Accounting — 3 Units

Formerly: ACCT 92

Prerequisite: ACCT 311 with a grade of "C" or better.
54 hours Lecture
This course is an introduction to cost accounting methods, including job order, process, and standard costs systems with special attention to managerial uses of cost accounting. This course is not intended for transfer.

ACCT 121 Payroll Accounting 3 Units

Prerequisite: None
Advisory: ACCT 101.
54 hours Lecture
This is a study of payroll records, procedures, and regulations. The course will include a study of the various California and Federal laws pertaining to the computation of earnings and withholdings. Payroll tax payment requirements and preparation of the employer's California and Federal payroll tax reports will be included. A comprehensive simulation project will be completed as part of the course. Use of a computer and payroll software will be required.

ACCT 126 Individual Income Taxation 4 Units

Formerly: ACCT 77

Prerequisite: None
72 hours Lecture
This course studies Federal and State income tax regulations pertaining to individuals. The course includes theory, concepts, and applications of Internal Revenue Service and State of California individual income tax provisions.

ACCT 151 Governmental Auditing 3 Units

Formerly: ACCT 94

Prerequisite: ACCT 103 with a grade of "C" or better.
54 hours Lecture
This course provides an introduction to the auditing of governmental programs and activities. Emphasis is on auditing requirements, standards, procedures, practices, and approaches used in the verification of governmental accounting records and financial statements. The internal auditing function will be stressed.

ACCT 153 Governmental Accounting 3 Units

Formerly: ACCT 95

Prerequisite: ACCT 301 with a grade of "C" or better.
54 hours Lecture
This course covers accounting and financial reporting for governmental units and institutions with emphasis on the principles of fund accounting as prescribed by the Governmental Accounting Standards Board. It includes the accounting aspects of budgeting and budgetary control for governmental and non-profit entities.

ACCT 301 Financial Accounting 4 Units

Formerly: ACCT 1A

Prerequisite: None
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This course is a study of accounting as an information system. Emphasis is on the principles (rules) underlying the content of financial reports and related disclosures, for distribution to stockholders, creditors and other interested parties. Also emphasized is the interpretation of financial statements. This course is required of all business majors, minors, and accounting certificate candidates.

ACCT 311 Managerial Accounting 4 Units

Formerly: ACCT 1B

Prerequisite: ACCT 301 with a grade of "C" or better.
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This is the study of accounting information needed by decision makers of all types and sizes of organizations (service, retail, manufacturing, and not-for-profit; small businesses to large corporations). Emphasis is placed upon the analysis of quantitative information needed for short and long-term planning, day to-day operations, and reviewing of operations and personnel. This course is required of all business majors, minors, and accounting certificate candidates.

ACCT 341 Accounting on the Microcomputer 2 Units

Formerly: ACCT 5

Prerequisite: CISC 300 or equivalent, and either ACCT 101 or ACCT 301, with grades of "C" or better.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course is an introduction to the use of microcomputers for processing accounting information such as payrolls, accounts receivable, accounts payable, and depreciation schedules as well as a general ledger system. It will show how the computer stores, maintains, and processes information and prints required accounting reports. This course is recommended for all accounting majors.

Administration of Justice ADMJ

Associate in Arts Degree

Associate in Science Degree

Career Certificate

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Correctional Services, Degree and Career Certificate

Police Services, Degree and Career Certificate

Private Security Services Management, Degree and Career Certificate

Career Opportunities

A great variety of career opportunities is open to students who successfully complete specific portions of this program of study. There is an urgent demand for trained personnel in such areas as uniformed police patrol, investigation, criminal identification, criminalistics, and corrections. Financially and professionally rewarding employment in these areas may be found on the local, state, federal, and private levels.

Recommended High School Preparation: General college preparatory courses.

Information: The general field referred to as "Administration of Justice" is directed toward the prevention, discovery, control and treatment of crimes, criminals, and criminality. Students desiring to enter a career concerned with the administration of justice will find that this curriculum has flexibility that allows them to prepare for specific fields included in that broad category. The program also provides the basis for advanced study at a four-year college. Opportunities for college graduates include positions as federal and state parole officers, probation officers, and correctional administrators.

Administration of Justice

Associate of Arts Degree

Required Program	Units
ADMJ 300, Introduction to Administration of Justice	3
ADMJ 301, Applied Reporting Techniques for Criminal Justice.	3
ADMJ 302, Community Relations	3
ADMJ 304, Juvenile Delinquency	3
ADMJ 320, Concepts of Criminal Law.	3
ADMJ 322, Criminal Procedures	3
ADMJ 323, Legal Aspects of Evidence	3
ADMJ 330, Criminal Investigations Services.	3
Total Units Required	**24**

Associate in Arts Degree (A.A.)

The Associate in Arts degree may be obtained by completion of the core program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Correctional Services

Associate in Science Degree
Career Certificate

The Correctional Services option of the Administration of Justice Program is dedicated to preparing the student for a career in corrections that offers a wide range of employment opportunities in the area of supervision and rehabilitation of convicted offenders. It is designed to introduce students to the correctional field and provide them with a comprehensive understanding of correctional history, legal fundamentals, philosophy, and techniques.

Required Program	Units
ADMJ 300, Introduction to Administration of Justice	3
ADMJ 301, Applied Reporting Techniques for Criminal Justice	3
ADMJ 302, Community Relations: Multicultural Issues.	3
ADMJ 330, Criminal Investigation	3
ADMJ 304, Juvenile Delinquency	3
ADMJ 320, Concepts of Criminal Law.	3
ADMJ 322, Criminal Procedures	3
ADMJ 323, Legal Aspects of Evidence	3
ADMJ 303, Substance Abuse: Effects on Body and Behavior (Same as PSYC 405).	3
ADMJ 340, Introduction to Correctional Services	3
ADMJ 346, Probation and Parole.	3
Total Units Required	**33**

CELEBRATING 90 YEARS

Suggested Electives
ADMJ 342, 347, 498.

Associate of Science (A.S.) Degree
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better.

Police Services

Associate in Science Degree
Career Certificate

The Police Services option of the Administration of Justice Program accepts as its basic mission the preparation of interested students for entry into the police field where the primary functions are the prevention of crime and apprehension of criminals. Students embarking on this career should have the ability to commit themselves to an endeavor where professionalism, maturity, and dedication are absolute prerequisites to success.

Required Program	Units
ADMJ 300, Introduction to Administration of Justice	3
ADMJ 320, Concepts of Criminal Law	3
ADMJ 322, Criminal Procedures	3
ADMJ 301, Applied Reporting Techniques for Criminal Justice	3
ADMJ 323, Legal Aspects of Evidence	3
ADMJ 302, Community Relations: Multicultural Issues	3
ADMJ 330, Criminal Investigation	3
ADMJ 304, Juvenile Delinquency	3
ADMJ 331, Patrol Procedures	3
ADMJ 303, Substance Abuse: Effects on Body and Behavior	3
ADMJ 321, Substantive Criminal Law	3
Total Units Required	**33**

Suggested Electives
ADMJ 340, 346, 498.

Associate of Science (A.S.) Degree
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Private Security Services Management

Associate in Science Degree
Career Certificate

The Private Security Services Management option prepares students to succeed in such challenging endeavors as loss prevention, executive protection, industrial espionage, and private investigations. Students entering this facet of the Administration of Justice field are virtually assured of a challenging career in an industry that is technically diverse, broad in scope, and rapidly growing.

Required Program	Units
ADMJ 300, Introduction to Administration of Justice	3
ADMJ 301, Applied Reporting Techniques for Criminal Justice	3
ADMJ 302, Community Relations: Multicultural Issues	3
ADMJ 303, Substance Abuse: Effects on Body and Behavior (Same as PSYC 405)	3
ADMJ 304, Juvenile Delinquency	3
ADMJ 320, Concepts of Criminal Law	3
ADMJ 322, Criminal Procedures	3
ADMJ 323, Legal Aspects of Evidence	3
ADMJ 330, Criminal Investigation	3
ADMJ 361, Retail and Industrial Security	3
ADMJ 366, Private Investigations	3
Total Units Required	**33**

Suggested Electives
ADMJ 360, 498.

Associate of Science (A.S.) Degree
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Administration of Justice (ADMJ)

ADMJ 300 Introduction to Administration of Justice — 3 Units

Formerly: ADMJ 1

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 310 with grades "C" or better, or ESLW 320 and ESLR 320 with grades of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture
This is an introductory course which will examine the history and philosophy of our criminal justice system as it evolved from the days of early English common law to Its present day status. The class will thoroughly explore each sub system, such as law enforcement, courts, corrections, security and how they interact to maintain order in our society. Roles and role expectations of criminal justice agents will be identified and studied.

ADMJ 301 Applied Reporting Techniques for Criminal Justice — 3 Units

Formerly: ADMJ 5

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 310 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course provides a study of the techniques of communicating facts, information, and ideas effectively in a simple, clear, and logical manner in the various types of criminal justice system reports: letters, memorandums, directives, and administrative reports. Emphasis will be placed on criminal justice terminology; use of English and organization of information; practice experience in note taking and report writing; and presentation of testimony in court.

ADMJ 302 Community Relations: Multicultural Issues — 3 Units

Formerly: ADMJ 7

Prerequisite: None
Advisory: Completion of ENGRD 310 and ENGWR 100 with a grade of 'C' or better.
General Education: AA/AS Area F.
Acceptable for credit: CSU
54 hours Lecture
This course examines peacekeeping and law enforcement in a multicultural society in the 21st century. The course examines new strategies, skills, tools, and cultural knowledge necessary for personnel engaged in all aspects of the criminal justice system. Also, the impact of cultural diversity on law enforcement, the cultural specifics for law enforcement, multicultural law enforcement elements in terrorism and homeland security, response strategies for crimes motivated by hate/bias and racial profiling, and cultural effectiveness for peace officers will be discussed.

ADMJ 303 Substance Abuse: Effects on Body and Behavior (Same as PSYC 405) — 3 Units

Formerly: ADMJ 85

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed for anyone who is interested in the effects illegal drugs, prescription drugs, over the counter drugs, vitamins, health foods, coffee, and nicotine have on people physically, emotionally, mentally, and financially. This course is especially recommended for people who are seeking or working in careers in health, law enforcement, counseling, psychology, business, social services, or teaching. (Credit for Administration of Justice 303 or Psychology 405, but not both.)

ADMJ 303.1 Substance Abuse: Effects on Body and Behavior Overview — .5 Unit

Formerly: ADMJ 85A

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This is the introductory module to the three-unit Substance Abuse series which will provide an overview of the course. Students will review the history of drug use, its chemical commodities and nervous system functioning. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.2 Substance Abuse: The Action of Drugs — .5 Unit

Formerly: ADMJ 85B

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series is for students who are interested in the physiological action of a variety of drugs, including stimulants. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.3 Substance Abuse: Sedatives and Hypnotics — .5 Unit

Formerly: ADMJ 85C

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will explore the effects and treatment of sedatives, hypnotics, and alcohol. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.4 Substance Abuse: Over the Counter and Psychotherapeutic Drugs .5 Unit

Formerly: ADMJ 85D

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will specifically examine the effects and treatments for over-the-counter and psychotherapeutic drugs. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.5 Substance Abuse: Narcotics and Hallucinogens .5 Unit

Formerly: ADMJ 85E

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will provide an understanding of the effects and treatment of narcotics. Other topics will include hallucinogens, marijuana, and hashish. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.6 Substance Abuse: Drug Use as a Social Problem .5 Unit

Formerly: ADMJ 85F

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will explore drug use as it relates to law, education, and treatment modalities. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 304 Juvenile Delinquency 3 Units

Formerly: ADMJ 86

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course is designed to examine juvenile delinquency from a variety of perspectives, including the concept of delinquency; theories of delinquency; social, community, and environmental influences on delinquency and the juvenile justice system (past and present). An overview of adolescent problems and current approaches being utilized to confront these problems will also be discussed. The course is designed to examine a variety of the causes of juvenile delinquency, as well as suggestions for the treatment of delinquency at both the state and local levels. This course examines the nature and extent of delinquency with relation to gender differences, family dynamics, peer and gang groups, schools, drug use, and the juvenile justice courts.

ADMJ 320 Concepts of Criminal Law 3 Units

Formerly: ADMJ 2

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 310 with grades of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the philosophy and structures of criminal law. Through a case study method, students will learn the restrictions placed on legislative bodies by the constitution in formulating laws. General principles of criminal liability, parties to crime, and defenses to criminal liability will be explored thoroughly. The course briefly introduces elements to specific crimes.

ADMJ 321 Substantive Criminal Law 3 Units

Formerly: ADMJ 3

Prerequisite: ADMJ 320.
Acceptable for credit: CSU
54 hours Lecture
This is an in-depth study of the substantive criminal laws commonly enforced by California state, county, and municipal law enforcement officers. The course provides a complete analysis of both statute law as created by the state legislature and case law as defined in state and federal appellate court decisions.

ADMJ 322 Criminal Procedures 3 Units

Formerly: ADMJ 4

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 310 with grades "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is an in-depth study of criminal procedures used to enforce substantive law at both the federal and state level. Every step of the criminal process from arrest to appeal will be thoroughly explored.

ADMJ 323 Legal Aspects of Evidence 3 Units

Formerly: ADMJ 6

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 310 with grades "C" or better
Acceptable for credit: CSU
54 hours Lecture
This course will study the rules of evidence and their application to both state and federal courts. Particular attention will be given to types of evidence and the laws governing admissibility of evidence into criminal procedures. Typical topics will include search and seizure, hearsay evidence, witness competency, and direct evidence as contrasted to circumstantial evidence.

ADMJ 326 Family Law Issues (Same as FCS 306) 3 Units

Formerly: ADMJ 70

Prerequisite: None
Advisory: Eligibility for ENGWR 100.
Acceptable for credit: CSU
54 hours Lecture
This is an introductory course that provides basic knowledge of both civil and criminal laws dealing with family and domestic issues. The course explores paternity suits, pre-nuptial agreements, divorce, child custody, child support, alimony, spousal abuse, restraining orders, child visitation violations, parental kidnapping, and numerous other domestic problems faced by the justice system and families.

ADMJ 330 Criminal Investigation 3 Units

Formerly: ADMJ 80

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 310 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course will present the techniques involved in the investigation of crimes. Topics will include interviewing and interrogation techniques, identifying, collecting, and processing physical evidence, and procuring and serving search warrants. Special attention will be given to strategies used in the investigation of specific crimes.

ADMJ 331 Patrol Procedures 3 Units

Formerly: ADMJ 8

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310; ADMJ 300 and 340.
Acceptable for credit: CSU
54 hours Lecture
This course will study the organization of patrol division, types of patrol, and patrol duties. The role of the patrol officer in community relations, crime prevention, ethics and law enforcement, and minority group problems will be discussed.

ADMJ 340 Introduction to Correctional Services 3 Units

Formerly: ADMJ 52

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to provide the student with an overview of the history and trends of adult and juvenile corrections including probation and parole. The course will focus on the legal issues, specific laws, and general operation of correctional institutions. The relationship between corrections and other components of the judicial system will also be examined.

ADMJ 341 Control and Supervision in Corrections 3 Units

Formerly: ADMJ 53

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course offers an overview of supervision of inmates in the local, state, and federal correctional institutions. The issues of control in a continuum from institutional daily living through crisis situations will be introduced and discussed. The course will emphasize the role played by the offender and the correctional worker. Topics will include inmate subculture, violence, and the effects of crowding on inmates and staff, as well as coping techniques for Correctional Officers in a hostile prison environment. The causes and effects of abusive tactics will also be discussed.

ADMJ 342 Gangs and Corrections 3 Units

Formerly: ADMJ 54

Prerequisite: None
Advisory: Completion of ADMJ 340
General Education: AA/AS Area B2
Acceptable for credit: CSU
54 hours Lecture
This course is designed to provide the student with a specialized field of knowledge as it relates to the correctional impact of gangs. Following a development of the history of gangs and the issues associated with the development of gangs, the course will focus on the emergence of prison gangs following a series of changes within correctional system. Psychological and sociological dynamics of gangs are explored. Institutional management of gangs as well as future trends will be explored.

ADMJ 343 Supervision in Corrections 3 Units

Formerly: ADMJ 55

Prerequisite: None
Advisory: Completion of ADMJ 340
Acceptable for credit: CSU
54 hours Lecture
After introducing the theory and practice of supervision as it is practiced in the business and public sector, this course will focus on the skills and knowledge of supervision as applied in corrections. Examples, scenarios and case studies from both juvenile and adult corrections and parole will be utilized. Students in this course should have some experience or education in the corrections field. The intent of this course is to provide the student with basic understanding of the subject, which can be the foundation for further agency specific training.

ADMJ 344 Leadership Development in Corrections 3 Units

Formerly: ADMJ 56

Prerequisite: None
Advisory: Completion of ADMJ 340
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to leadership theory and practice in the correctional system. Although most of the leadership examples to be discussed deal directly with the correctional environment, others related generally to government and business will also be

introduced. The course will emphasize leadership skills and experiences beneficial to a first-line supervisor. This course is intended for an individual with background (either educational or experiential) in corrections at the local, state or federal level.

ADMJ 345 Legal Aspects of Corrections 3 Units

Formerly: ADMJ 64

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course provides students with an awareness of the historical framework, concepts, and precedents that guide correctional practice. Course material will broaden the individual's perspective of the corrections environment, the civil rights of prisoners, and the responsibilities and liabilities of corrections officials.

ADMJ 346 Probation and Parole 3 Units

Formerly: ADMJ 87

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will compare and contrast probation and parole. Topics will include organization, function, goals, historical development and treatment theory and practice and how these concepts are utilized in California.

ADMJ 347 Correctional Counseling and Interviewing 3 Units

Formerly: ADMJ 88

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course is designed to introduce the student to techniques of correctional counseling and interviewing in case development. Counseling is shown to be a treatment process to help provide the client with sufficient insight to understand the negative consequences of anti-social behavior. Particular emphasis is placed on the need of the counselor to maintain a receptive nonjudgmental attitude and to explore a range of potential techniques for meeting individual client needs.

ADMJ 360 Security Services 3 Units

Formerly: ADMJ 66

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to the history, development, and functions of security services. The course will explore, examine, and critically assess the inter-relationships to the legal process; career roles and operational processes in various types of security organizations.

ADMJ 361 Retail and Industrial Security 3 Units

Formerly: ADMJ 67

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will explore the impact that retail and industrial theft have on our economy. The class will further examine and critically assess the loss prevention methods now being utilized in the security field such as surveillance cameras, alarm systems, security lighting, and perimeter fencing.

ADMJ 366 Private Investigations 3 Units

Formerly: ADMJ 68

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This class is an introduction to the history and development of Private Investigations as a profession. The course will explore how private investigators evaluate issues such as arson, personal injury suits and location of missing persons. A discussion of the licensing requirements for Private Investigators in the state of California is also included.

ADMJ 494 Topics in Administration of Justice .5-4 Units

Formerly: ADMJ 91

Prerequisite: None
Acceptable for credit: CSU
9-72 hours lecture
This course is designed to deal with current problems or specific topics concerning the administration of justice. Particular subjects to be covered each semester will be determined by the Administration of Justice staff. This course may be taken twice for credit.

ADMJ 498 Work Experience in Administration of Justice 1-4 Units

Formerly: ADMJ 98

Prerequisite: None
Enrollment Limitation: *According to Title V regulations, a student cannot earn academic credits in a Work Experience class unless s/he has either a job or an internship which relates specifically to the field of Administration of Justice.*
Acceptable for credit: CSU
18 hours Lecture; 60-300 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the field of Administration of Justice. Course content will include understanding the application of the student's education to the workforce; the responsibilities of an internship (where applicable); completion of Title V Education Code papers (the student's Application, Learning Objectives, Time sheet, and Evaluations), which document the student's progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies, as well as by local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be taken up to four times when there is new or expanded learning on the job for a total of 16 units. This course is transferable to any CSU campus. Only one Work Experience course may be taken per semester.

Aeronautics AERO FLTEC

Associate in Science Degree

Career Certificate

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb

Technology 106

916-558-2491

Airframe, Degree and Career Certificate

Powerplant, Degree and Career Certificate

Combined Airframe and Powerplant, Degree and Career Certificate

Aircraft Structure Manufacture and Repair, Degree and Career Certificate

Flight Technology, Degree and Career Certificate

Nondestructive Testing Technician, Career Certificate

Career Opportunities

The Department of Advanced Transportation Technology currently encompasses courses and/or certificate programs in Aeronautics, Electric Vehicle Technology, Flight Technology, Motorcycle Maintenance Technician, Nondestructive Testing, Railroad Operations, and Recreational Vehicle Maintenance. This department focuses on new and emerging transportation related courses, as well as traditional training which may lead directly to employment in local, state and nationally recognized fields. Future courses and programs will be added as technology continues to advance.

Aeronautics

Recommended High School Preparation: Courses in English, mathematics, physics, electronics, auto shop, machine shop, computers.

Program Information: Sacramento City College maintains a Federal Aviation Administration-approved two-year program organized to train students as airframe and powerplant maintenance technicians. This program is designed to meet the needs of students who desire technical training to qualify for the Federal Aviation Administration tests.

The Aeronautics program is governed by regulations established by the Federal Aviation Administration. Each student pursuing a combined airframe and powerplant certificate is required to complete four semesters of instruction. Students who complete the requirements for issuance of a Career Certificate may take the examinations given by the Federal Aviation Administration for one of the following for technician certification:

Combined Airframe and Powerplant - Students pursuing this certificate must complete AERO 300, 301, 302, 303, 310, 311, 312, 313, 320, 321, 322, 323, 330, 331, 332, 333 with a grade of "C" or better in all courses.

Airframe - Students pursuing this certificate must complete AERO 300, 301, 302, 303, 320, 321, 322, 323, 330, 332 with a grade of "C" or better in all courses.

Powerplant - Students pursuing this certificate must complete AERO 300, 301, 302, 303, 310, 311, 312, 313, 331, 333 with a grade of "C" or better in all courses.

Upon passing the appropriate Federal examinations, the graduate is certificated to work on aircraft as a technician and to supervise the work of others on such craft.

Program Costs: In addition to the normal student expenses (for textbooks, personal equipment, and supplies), laboratory materials fees may be required. These fees may vary each semester. If these fees create a financial burden, students should consult the Financial Aid Office for possible assistance.

Transfers from another Federal Aviation Administration Approved airframe and powerplant school must provide an official transcript and catalog for evaluation by the department.

CELEBRATING 90 YEARS

Aeronautics Core Program

Completion of all courses in the Core Program with a grade of "C" or better is required for all program options. These include Airframe, Powerplant, and Combined Airframe and Powerplant.

Aeronautics Core	**Units**
AERO 300, General Airframe and Powerplant	5
AERO 301, General Airframe and Powerplant Applications	3
AERO 302, Basic Electricity and Electrical Systems	5
AERO 303, Basic Electricity, Airframe and Powerplant Electrical Systems Applications	3
Total Units Required	**16**

Suggested electives for all options
AERO 370, 120, 121, 340 and 341, 350 and 351, 360 and 361; TECH 100, 103, 300.

Airframe

Associate in Science Degree
Career Certificate

Designed for students pursuing FAA Certification as an Airframe Maintenance Technician.

Required Program	**Units**
Aeronautics Core	16
AERO 320, Airframe Systems and Components	5
AERO 321, Airframe Structures	5
AERO 322, Airframe Systems and Components Applications	3
AERO 323, Airframe Structures and Systems Applications	3
AERO 330, Airframe Inspection	5
AERO 332, Airframe Inspection Applications	3
Total Units Required	**40**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better.

Powerplant

Associate in Science Degree
Career Certificate

Designed for students pursuing FAA Certification as a Powerplant Maintenance Technician

Required Program	**Units**
Aeronautics Core	16
AERO 310, Powerplant Theory and Maintenance	5
AERO 311, Powerplant Theory and Maintenance Applications	3
AERO 312, Powerplant Systems and Components	5
AERO 313, Intermediate Powerplant Systems and Component Applications	3
AERO 331, Powerplant Inspection	5
AERO 333, Powerplant Inspection Applications	3
Total Units Required	**40**

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better.

Combined Airframe and Powerplant

Associate in Science Degree
Career Certificate

Designed for students pursuing FAA Certification as an Airframe and Powerplant Maintenance Technician.

Required Program	Units
Aeronautics Core	16
AERO 310, Powerplant Theory and Maintenance	5
AERO 312, Powerplant Systems and Components	5
AERO 313, Intermediate Powerplant Systems and Component Applications	3
AERO 311, Powerplant Theory and Maintenance Applications	3
AERO 320, Airframe Systems and Components	5
AERO 321, Airframe Structures	5
AERO 322, Airframe Systems and Components Applications	3
AERO 323, Airframe Structures and Systems Applications	3
AERO 330, Airframe Inspection	5
AERO 331, Powerplant Inspection	5
AERO 332, Airframe Inspection Applications	3
AERO 333, Powerplant Inspection Applications	3
Total Units Required	**64**

Associate of Science (A.S.) Degree
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better.

Aircraft Structure Manufacture and Repair

Associate in Science Degree
Career Certificate

Career Opportunities: This program provides preparation for employment in the aerospace industry. Most employment opportunities would be with major airframe manufacturers or with companies specializing in major airframe repair and modifications.

Advancement Opportunities: This course is designed to be completed within two semesters for the full time student. The subjects covered and hours completed in the sheetmetal option can be transferred to the Aeronautics Airframe Option. The Airframe Option can lead to the Federal Aviation Administration (F.A.A.) Airframe Certificate.

Required Program	Units
AERO 100, Basic Aircraft Sheetmetal Theory	5
AERO 101, Basic Applied Aircraft Sheetmetal Lab	1.5
AERO 102, Advanced Aircraft Sheetmetal Theory	5
AERO 103, Advanced Applied Aircraft Sheetmetal Lab	1.5
AERO 110, Basic Aircraft Structure Theory	5
AERO 111, Basic Applied Aircraft Structure Lab	1.5
AERO 112, Advanced Aircraft Structure Theory	5
AERO 113, Advanced Applied Aircraft Structure Lab	1.5
Total Units Required	**26**

Suggested Courses
AERO 370, 120.

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Flight Technology

Associate in Science Degree
Career Certificate

Designed for students pursuing a career as a Commercial Pilot.

Career Opportunities: Professional Pilots are employed as Charter Pilots, Flight Instructors, Agricultural Pilots, Flight Engineers, Regional Airline/Major Airline Pilots as well as working for a Government Agency or the Military.

Preparation: High school courses in English, mathematics, physics, chemistry, electronics, mechanics and computers are encouraged.

Required Program	Units
AERO 310, Powerplant Theory and Maintenance	5
AERO 320, Airframe Systems and Components	5
AERO 120, Private Pilot, Sport Pilot, Basic Ground Instructor Ground School	3
AERO 121, Instrument Pilot/Instructor Ground School	3
Select three (3) units from the following:	3
AERO 370, Introduction to Aviation (3)	
AERO 311, Powerplant Theory and Maintenance Applications (3)	
AERO 322, Airframe Systems and Components Applications (3)	
AERO 494, Topics in Aeronautics, Aviation Maintenance (3)	
AERO 122, Commercial Pilot Ground School (3)	
AERO 299, Experimental Offering in Aeronautics (.5-5)	
Total Units Required	**19**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better.

Nondestructive Testing Technician

Career Certificate

Designed for students pursuing employment opportunities as a Nondestructive Testing Technician.

Required Program	**Units**
AERO 360, Nondestructive Testing I	2
AERO 361, Nondestructive Testing II	2
AERO 362, Nondestructive Testing III	2
TECH 103 or MET 220, Technical Communication	3
Select nine (9) units from the following courses:	9
AERO 310, Powerplant Theory and Maintenance (3)	
AERO 311, Powerplant Theory and Maintenance Applications (3)	
MIT 326, Advanced Oxy-Acetylene Welding and Related Processes (1.5)	
TECH 100, Introduction to Technology (1)	
TECH 300, Introduction to Robotic Systems Application (Same as ENGR 308) (3)	
Total Units Required	**18**

Career Certificate
The Career Certificate may be obtained by completion of the required program with a "C" or better.

Aeronautics (AERO)

NOTE: The Federal Aviation Administration requires that a grade of "C" or better must be earned in ALL required Aeronautics courses to qualify for certification testing.

AERO 100 Basic Aircraft Sheetmetal Theory — 5 Units

Formerly: AERO 56

Prerequisite: None
90 hours Lecture
This course is designed to teach the aeronautics student basic technical mathematics, basic aircraft drawings, basic physics, theory of aluminum alloy sheetmetal and rivets, along with aluminum cleaning and corrosion control.

AERO 101 Basic Applied Aircraft Sheetmetal Lab — 1.5 Units

Formerly: AERO 57

Prerequisite: None
Advisory: It is advised that the students take the following courses concurrently: ENGLB 55 and MATH 27.
90 hours Laboratory
This course will allow the aeronautics student to manufacture and repair a number of basic sheetmetal parts using universal, flush and special rivets applied to butt and lap seams.

AERO 102 Advanced Aircraft Sheetmetal Theory — 5 Units

Formerly: AERO 58

Prerequisite: AERO 100 with a grade of "C" or better or equivalent.
90 hours Lecture
This course is designed to teach the aeronautics student advanced technical mathematics for use with precision measuring instruments, complex sheetmetal repair made by aircraft drawings and aerodynamics of flight. This course will also cover required aircraft hardware used in complex repairs.

AERO 103 Advanced Applied Aircraft Sheetmetal Lab — 1.5 Units

Formerly: AERO 59

Prerequisite: AERO 101 with a grade of "C" or better or equivalent.
90 hours Laboratory
This course will allow the aeronautics student to apply advanced technical mathematics to precision measuring instruments and complex sheetmetal repairs using aircraft drawings. An understanding of aerodynamics of flight and the use of structural hardware will also be utilized.

AERO 110 Basic Aircraft Structure Theory 5 Units
Formerly: AERO 66

Prerequisite: None
Advisory: It is advised that the students take the following courses concurrently: ENGLB 55 and MATH 27.
90 hours Lecture
This course is designed to teach the aeronautics student the basic theory of airframe inspection, welding, fluid lines and fittings, basic sheetmetal structures, weight and balance, required repair forms and technician privileges and limitations pertaining to structure repair.

AERO 111 Basic Applied Aircraft Structure Lab 1.5 Units
Formerly: AERO 67

Prerequisite: None
Advisory: It is advised that the students take the following courses concurrently: ENGLB 55 and MATH 27.
90 hours Laboratory
This course will allow the aeronautics student to inspect an airframe structure along with weldments, fluid lines and fittings, weight and balance data, and required forms.

AERO 112 Advanced Aircraft Structure Theory 5 Units
Formerly: AERO 68

Prerequisite: AERO 110 with a grade of "C" or better or equivalent.
90 hours Lecture
This course is designed to teach aeronautics students the theory of aircraft fabric covering, finishes, assembly and rigging, non-metallic structures, and advanced sheetmetal structures.

AERO 113 Advanced Applied Aircraft Structure Lab 1.5 Units
Formerly: AERO 69

Prerequisite: AERO 111 with a grade of "C" or better or equivalent.
90 hours Lecture
This course is designed to teach the aeronautics student application methods for aircraft covering, finishes, and non-metallic materials. The student will be able to assemble and rig a flight control on the aircraft structure.

AERO 120 Private Pilot, Sport Pilot, Basic Ground Instructor Ground School 3 Units
Formerly: AERO 87

Prerequisite: None
54 hours Lecture
This course explains the basic principles of aviation, meteorology, navigation, communication, weight and balance, aircraft systems and instruments, performance, flight procedures, air traffic control, and regulations. It provides the necessary information that will enable students to pass the Sport Pilot, Private Pilot, and basic Certificated Ground Instructor knowledge tests. It also meets Federal Aviation Administration requirements for the knowledge test.

AERO 121 Instrument Pilot/Instructor Ground School 3 Units
Formerly: AERO 88

Prerequisite: None
54 hours Lecture
This course is an introduction to the basic principles of instrument flying to include: Instrument Flight Rules (IFR), Instruments, meteorology, navigation, IFR approaches, IFR en route, communications, air traffic control and aeromedical factors. This course meets the Federal Aviation Administration requirement for Instrument Pilot and/or Instrument Ground instructor, Instrument Flight instructor written tests.

AERO 122 Commercial Pilot Ground School 3 Units
Formerly: AERO 89

Prerequisite: None
54 hours Lecture
This course is an in-depth study of the principles of aviation, navigation, communications, weight and balance, instruments, performance, theory of flight and regulations. This course meets the Federal Aviation Administration (FAA) requirement for commercial pilot and/or Advanced Ground Instructor written test.

AERO 200 Certificated Aircraft Mechanic Preparation 1-3 Units
Formerly: AERO 86

Prerequisite: None
54 hours Lecture
This is a specialized course developed in cooperation with the Federal Aviation Administration (FAA). This course, in part, meets the certification requirements of Part 147 of the Federal Aviation Regulations covering Airframe and Powerplant Mechanics. This course may be taken four times for credit. The amount of credit awarded is based on the total number of hours completed (18 hours=1 unit). This course will prepare the student for oral, practical, and written portions of the general, powerplant, and airframe sections of the Federal Aviation Administration test.

AERO 210 Large Aircraft Systems and Performance Data 5 Units
Formerly: AERO 75

Prerequisite: None
90 hours Lecture
This Boeing 727 general familiarization course is designed for students desiring to become a pilot, turbojet flight engineer or mechanic on large, complex aircraft typically flown by the airline industry. All Boeing 727 systems will be covered in detail, such as hydraulics, pneumatics, pressurization, air-conditioning electrics, fire protection, ice/rain removal and engine operation, flight performance, take off and landing data. Weight and balance computations and emergency procedures will also be covered.

AERO 300 General Airframe and Powerplant 5 Units

Formerly: AERO 50

Prerequisite: None
General Education: AA/AS Area D2.
Acceptable for credit: CSU
90 hours Lecture
This course provides an introduction to sheet metal fabrication, aircraft drawings, fluid lines and fittings, materials and processes (including aircraft hardware identification, gas welding and precision measurement), and aviation math and physics, including theory of flight for fixed wing aircraft.

AERO 301 General Airframe and Powerplant Applications 3 Units

Formerly: AERO 52

Prerequisite: Concurrent enrollment in AERO 300.
Acceptable for credit: CSU
180 hours Laboratory
This course provides basic skills projects required by the Federal Aviation Administration related to the AERO 300 lectures, including sheet metal repair, welding, and hardware identification.

AERO 302 Basic Electricity and Electrical Systems 5 Units

Formerly: AERO 51

Prerequisite: None
Advisory: Concurrent enrollment in AERO 303.
Acceptable for credit: CSU
90 hours Lecture
This course provides electrical theory for airframe and powerplant electrical systems (circuits and schematics, ignition and electrical generating systems, instruments, batteries, AC and DC circuit system components).

AERO 303 Basic Electricity, Airframe and Powerplant Electrical Systems Applications 3 Units

Formerly: AERO 53

Prerequisite: Concurrent enrollment in AERO 302.
Acceptable for credit: CSU
180 hours Laboratory
This course provides development projects related to AERO 302 lectures as required by the Federal Aviation Administration to develop skills necessary for an Airframe and Powerplant Technician. Units of instruction include repair and maintenance techniques of airframe and powerplant electrical systems and cover ignition and electrical generating systems, instruments, batteries, AC and DC circuits.

AERO 310 Powerplant Theory and Maintenance 5 Units

Formerly: AERO 61

Prerequisite: None
Advisory: Concurrent enrollment in AERO 311.
Acceptable for credit: CSU
90 hours Lecture
This course provides instruction in reciprocating and gas turbine/turbo propeller engine theory, overhaul, inspection, testing, and operation.

AERO 311 Powerplant Theory and Maintenance Applications 3 Units

Formerly: AERO 63

Prerequisite: Concurrent enrollment in AERO 310.
Acceptable for credit: CSU
180 hours Laboratory
This course covers projects related to the AERO 310 lectures as required by the Federal Aviation Administration. These include familiarization and operation of equipment required when overhauling and testing gas turbine and reciprocating powerplants, the operation and familiarization of gas turbine powerplant accessories, fire detection/protection systems, and operation of gas turbine powerplants in the test cell environment.

AERO 312 Powerplant Systems and Components 5 Units

Formerly: AERO 60

Prerequisite: None
Advisory: Concurrent enrollment in AERO 313.
Acceptable for credit: CSU
90 hours Lecture
This course provides instruction in the theory of reciprocating and gas turbine/turbo propeller engines; related accessories including cooling and lubrication; ignition, propellers, and governors; fuel metering; and fire protection systems.

AERO 313 Intermediate Powerplant Systems and Component Applications 3 Units

Formerly: AERO 62

Prerequisite: Concurrent enrollment in AERO 312 or completion with a grade of "C" or better.
Acceptable for credit: CSU
180 hours Laboratory
This course provides skills development projects related to AERO 312 as required by the Federal Aviation Administration. Units of instruction include familiarization and operation of test equipment required in overhauling reciprocating and turbine powerplant components and engine test cell operations.

AERO 320 Airframe Systems and Components 5 Units

Formerly: AERO 70

Prerequisite: None
Corequisite: Concurrent enrollment in AERO 322 is required.
Acceptable for credit: CSU
90 hours Lecture
This course provides instruction in the following aircraft airframe systems: fuel, hydraulic, pneumatic, position and warning, air conditioning, heating, oxygen, pressurization, ice and rain control, fire extinguishing and detection.

AERO 321 Airframe Structures 5 Units

Formerly: AERO 71

Prerequisite: None
Corequisite: Concurrent enrollment in AERO 323 is required.
Acceptable for credit: CSU
90 hours Lecture
This course provides instruction in intermediate aircraft sheet metal, fabric, dope, and paint processes; plastic, wood, fiberglass, honeycomb, composites, and laminated structures; assembly and rigging; and landing gear systems.

AERO 322 Airframe Systems and Components Applications 3 Units

Formerly: AERO 72

Prerequisite: None
Corequisite: Concurrent enrollment in AERO 320 is required.
Acceptable for credit: CSU
180 hours Laboratory
This course provides skill development projects as required by the Federal Aviation Administration. The projects are related to the subject areas covered in AERO 320 and include familiarization, operation, overhaul, testing, and troubleshooting of the components and systems.

AERO 323 Airframe Structures and Systems Applications 3 Units

Formerly: AERO 73

Prerequisite: None
Corequisite: Concurrent enrollment in AERO 321 required.
Acceptable for credit: CSU
180 hours Laboratory
This course provides projects related to the AERO 321 lectures as required by the Federal Aviation Administration to develop skills in inspecting, checking, troubleshooting, servicing and repairing the components and systems.

AERO 330 Airframe Inspection 5 Units

Formerly: AERO 80

Prerequisite: Completion of AERO 300, 301, 302, 303, and 320, 321, 322, 323 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 332 is required.
Acceptable for credit: CSU
90 hours Lecture
This course provides the theory of the following: airframe inspection; mechanic privileges and limitations, maintenance forms and records, maintenance publications, weight and balance, communication, navigation and automatic pilot systems.

AERO 331 Powerplant Inspection 5 Units

Formerly: AERO 81

Prerequisite: Completion of AERO 300, 301, 302, 303 and 310, 311, 312, 313 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 333 is required.
Acceptable for credit: CSU
90 hours Lecture
This course provides the theory of: engine inspection, exhaust systems, ground operation and servicing, engine and airframe instruments systems, and advanced powerplant troubleshooting.

AERO 332 Airframe Inspection Applications 3 Units

Formerly: AERO 82

Prerequisite: Completion of AERO 300, 301, 302, 303 and 320, 321, 322, 323 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 330 is required.
Acceptable for credit: CSU
180 hours Laboratory
This course provides development projects as required by the Federal Aviation Administration. The projects are in the same areas as the subject areas covered in the AERO 330 lectures and include familiarization and operation of test equipment required for checking and testing the airframe systems of airworthy aircraft.

AERO 333 Powerplant Inspection Applications 3 Units

Formerly: AERO 83

Prerequisite: Completion of AERO 300, 301, 302, 303 and 310, 311, 312, 313 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 331 required.
Acceptable for credit: CSU
180 hours Laboratory
Projects as required by the Federal Aviation Administration. The projects are in the same areas as the subject areas covered in the AERO 331 lectures and include familiarization and operation of test equipment required for checking and testing the powerplant systems of airworthy aircraft.

AERO 340 Gas Turbine Development I 2 Units

Formerly: AERO 90A

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course provides instruction in the development of gas turbine powerplant overhaul techniques, material application, noise reduction and special engine application through laboratory projects involving engine system test cell operation and special purpose application for aviation and non-aviation uses.

AERO 341 Gas Turbine Development II 2 Units

Formerly: AERO 90B

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course provides continued instruction in the development of gas turbine powerplant theory of operation and application. Laboratory projects involve tear down, inspection, reassembly, and test-stand operation of turbine engines.

AERO 350 Helicopter Rotor and Drive Systems I 2 Units

Formerly: AERO 91A

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course provides introductory level instruction in the theory of helicopter flight, rotor systems, and flight controls. Laboratory projects involve disassembly, inspection, reassembly, and adjustment of helicopter components.

AERO 351 Helicopter Rotor and Drive Systems II 2 Units

Formerly: AERO 91B

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course provides continued instruction in the theory of helicopter flight, flight controls, and drive systems. Laboratory projects involve disassembly, inspection, reassembly, and adjustment of rotor control and power-train components.

AERO 360 Nondestructive Testing I 2 Units

Formerly: AERO 92A

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course focuses on the study of nondestructive testing of materials, processes, and procedures used in aircraft or product research, construction, manufacturing, maintenance, and overhaul. Emphasis of the course will be placed on basic metallurgy, fluorescent penetrants, borescope inspections, and magnetic particle testing processes.

AERO 361 Nondestructive Testing II 2 Units

Formerly: AERO 92B

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course focuses on the study of nondestructive testing materials, processes and procedures used in aircraft or product research, construction, manufacturing, maintenance and overhaul. Emphasis of this course will be placed on eddy current inspection processes, acoustic emission testing, soap/oil analysis, and introduction to radiographic and ultrasonic testing processes.

AERO 362 Nondestructive Testing III 2 Units

Formerly: AERO 92C

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This courses focuses on the study of nondestructive testing materials, processes and procedures used in aircraft or product research, construction, manufacturing, maintenance, and overhaul. Emphasis of this course will be placed on industrial applications of ultrasonic and radiographic testing processes and related licensing requirements.

AERO 370 Introduction to Aviation 3 Units

Formerly: AERO 55

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This introductory survey course, designed for non-professional aviation enthusiasts and novice aviation professionals, explains the fundamentals of aircraft and spacecraft flight and the history and development of aircraft and commercial aviation.

AERO 371 Aviation Weather 2 Units

Prerequisite: None
Acceptable for credit: CSU
36 hours lecture
This aviation-related meteorology course is designed for flight and aircrew members. It covers basic weather causes, phenomena, hazards, and prognostics as they apply to flight. It also describes and explains how to use and interpret Federal Aviation Administration and National Weather Service meteorological services for aircrews.

AERO 494 Topics in Aeronautics, Aviation Maintenance .5-4 Units

Formerly: AERO 85A

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture; 162 hours Laboratory
This is a specialized course developed in cooperation with industry to address emerging training needs. This course may be taken no more than three times for credit provided there is no duplication of topics.

AERO 498 Work Experience in Aeronautics 1-4 Units

See Work Experience.

Flight Technology (FLTEC)

FLTEC 294 Topics in Aeronautics, Flight Technology .5-3 Units

Formerly: AERO 85F

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
This is a specialized course developed in cooperation with industry to address emerging training needs in flight technology. This course may be taken no more than three times for credit provided there is no duplication of topics. See the current Schedule of Classes for more information.

Allied Health A H

Division of Science and Allied Health
Mary Turner, Dean
Mohr Hall 18
(916) 558-2271

AH 100 Professional Ethics of Health Team Members 1 Unit

Formerly: AH 52

Prerequisite: None
18 hours Lecture
This course is an introduction to professional and ethical behaviors of health care team members. Students utilize a problem-solving process for analysis of common ethical dilemmas in health care. Emphasis is on integration of personal values, ethical principles, and legal regulations in ethical decision making.

AH 102 Health Education of Patients and Family 1 Unit

Formerly: AH 53

Prerequisite: None
18 hours Lecture
This course is an introduction to teaching theory for individual and group approaches.

AH 104 Aging and its Implications for Health Care .5 Unit

Formerly: AH 55

Prerequisite: None
9 hours Lecture
This course introduces topics related to aging and their implication for health care providers. Emphasis is on socioeconomic and psychological aspects of aging, as well as normal age-related physiological changes. An overview of community resources which serve the older populations' health and dental needs is also included.

AH 106 Communication for Allied Health Careers 2 Units

Formerly: AH 51

Prerequisite: None
36 hours Lecture
This course is an introduction to communication as a therapeutic intervention for health care team members. Aspects of verbal and nonverbal communication that impact interactions with patients, family members, and other health care providers are explored. Cultural differences, and the need to adjust communication approach with sensitivity to ethnicity, religion, gender, age, sexuality and disability/health status are included. The course requires both personal reflection and class participation in role-play activities.

AH 110 Medical Language for Health-Care Providers 3 Units

Formerly: AH 54

Prerequisite: None
54 hours Lecture
This course is an orientation to medical language; basic structure of medical terms and their components-prefixes, suffixes, roots, and combining forms with emphasis on analyzation, meaning, spelling and pronunciation. The course builds a medical vocabulary applicable to the specialties of medicine, the systems of the body, names of major diseases, and terms used in physical examination, diagnosis, and treatment.

CELEBRATING 90 YEARS

AH 111 **Strategies for Success in Allied Health Programs** **3 Units**

Formerly: AH 50

Prerequisite: None
54 hours Lecture
AH 111 is a three-unit course for those students interested in allied health professions who may have problems succeeding in the programs due to lack of English proficiency. The goal is to increase English proficiency while students are learning about the health care system. Content includes: the health care delivery system, associated careers and related educational preparations, professional ethics/expectation, communication skills (verbal/non-verbal), health practices in different cultures and basic techniques in personal health maintenance.

AH 310 **Sign Language for Health Care Personnel and Health Care Students (Same as SILA 336)** **1 Unit**

Formerly: AH 21

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course will provide techniques for Health Care Personnel and Health Care Students to facilitate communication with the Deaf Person. Topics to be discussed include but are not limited to: 1) Communication; 2) Introduction to American Sign Language and Fingerspelling; 3) History of Deafness; 4) Legal and Cultural Aspects of Deafness; 5) Community Resources.

AH 312 **Medical Terminology In Spanish (Same as NURSE 330)** **1 Unit**

Formerly: AH 22

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course is designed for medical personnel and Allied Health students to improve communication and health care for Spanish speaking patients. Basic terms, useful phrases, role playing will contribute to course content. Spanish medical terminology will be applied throughout the course. Knowledge of Spanish is not a prerequisite.

Anthropology ANTH

Associate in Arts Degree

Division of Behavioral and Social Sciences
J. Frank Malaret, Dean
Rodda North 226
916-558-2401

Career Opportunities

The Anthropology major is designed to prepare students for further study in Anthropology leading to BA, MA, and/or PhD degrees. Anthropologists with graduate degrees teach at high schools, colleges, and graduate levels. Archaeologists manage cultural resources for State, Federal, and Private organizations. Physical Anthropologists work in Forensics and Primatology. Both Archaeologists and Cultural Anthropologists manage and coordinate museums and research facilities.

Recommended High School Preparation
Preparatory courses including history, English, mathematics, and foreign languages.

Program Information
Anthropology majors are encouraged to participate in community activities, archaeological internships, Sacramento Zoo activities, and to attend relevant guest lectures.

Required Program	Units
ANTH 300, Physical Anthropology	3
ANTH 301, Physical Anthropology Laboratory	1
ANTH 310, Cultural Anthropology	3
ANTH 320, Introduction to Archaeology and World Prehistory	3
A minimum of 3 units from the following: One other three-unit Anthropology course	3
A minimum of 12 units from the following: Courses in Geography, Sociology, or History	12
Total Units Required	**25**

Associate in Arts (A. A.) Degree
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60 unit total.

Anthropology (ANTH)

ANTH 300 Physical Anthropology 3 Units
Formerly: ANTH 1
Prerequisite: Eligibility for ENGWR 100 or ESLW 340 is required.
General Education: AA/AS Area A.
Acceptable for credit: UC (ANTH 300 or 480, maximum one course)/CSU
54 hours Lecture
This course is an introduction to the science of physical anthropology. The topics to be covered will include: the field of anthropology; the scientific method; genetics and inheritance; natural selection; principles and mechanics of evolution; evidence of evolution; modern human variation; living primates; and the fossil evidence for human evolution.

ANTH 301 Physical Anthropology Laboratory 1 Unit
Formerly: ANTH 11
Prerequisite: ANTH 300 or 480 or with a grade of "C" or better or concurrent enrollment. Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area A.
Acceptable for credit: UC (only if taken after or concurrently with ANTH 300 or 480)/CSU
54 hours Laboratory
This introductory laboratory course is designed to familiarize students with the methods and materials of physical anthropology. Topics of significance covered in the course will include human osteology, forensic anthropology, genetics and evolutionary theory, biological classification, primatology, and the fossil evidence for the evolution of humans and their ancestors. Field trips may be included at the discretion of the instructor.

CELEBRATING 90 YEARS

ANTH 310 Cultural Anthropology 3 Units

Formerly: ANTH 2

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC (ANTH 310 or 481, maximum one course)/CSU
54 hours Lecture
This course is an introduction to the variety of customs, traditions, and forms of social organization in a variety of western and non-western societies. The main goal of the course is to understand the importance of culture for both the individual and societies. Anthropological concepts that will be stressed include human culture and language, cultural relativism, holism, ethnocentrism, cross-cultural comparisons, fieldwork and theory. Topics include the nature of culture, subsistence methods, religion, linguistics, trade and economic systems, arts, kinship, marriage and family systems, technology, and change.

ANTH 315 Cultures in Focus 3 Units

Formerly: ANTH 13

Prerequisite: ENGWR 100 or ESLW 320 with a grade of "C" or better
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines culture change in a variety of cultures around the world. Although emphasis will be placed on recent culture change through colonialism, globalization and development, all forms of culture change will be studied. The historical and social contexts of change, and their effects on social systems, values, ideologies, and other cultural arenas, will be examined. Systemic problems resulting from global culture change, such as socioeconomic inequities, will be studied.

ANTH 317 Cultures of Southeast Asia 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area B2, F.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to and comparison of the many cultures of Southeast Asia, including those in the countries of Vietnam, Myanmar, Thailand, Laos, Cambodia, Malaysia, Indonesia, and the Philippines. Cultural themes will include prehistory, gender, religion, the arts, cuisines, economies, social organization, colonialism, conflict, development, and migration. The course will include studies of Southeast Asian communities in the United States, the historical precedents of their arrivals, and some of the challenges that they face as minority cultures.

ANTH 320 Introduction to Archaeology and World Prehistory 3 Units

Formerly: ANTH 3

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the field of Archaeology and a survey of World Prehistory. Students will be introduced to the theories, concepts, and methods employed by archaeologists in the study of the human past. By examining the archaeological record of cultures in Africa, Europe, Asia, the Americas, and the Pacific Islands, this course explores the trajectory of human cultures from the Upper Paleolithic onward, using a range of case studies from around the world.

ANTH 322 Archeological Site Identification 1.5 Units

Formerly: ANTH 5B

Prerequisite: None
Advisory: ENGWR 100 or ESLW 340 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture
This class provides classroom and field experience in all aspects of identifying prehistoric and historic sites: map reading, making sketch maps, artifact identification, historic and prehistoric background of Northern California, completing an official Site Survey Form acceptable to State Standards, and experience identifying sites in real field situations. Students receive partial preparation for entry level jobs with government agencies or archeological consulting firms. Two field trips are required.

ANTH 330 Magic, Witchcraft, and Religion 3 Units

Formerly: ANTH 12

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a cross-cultural study of the forms and functions of supernatural beliefs and associated rituals in various societies of Africa, Asia, aboriginal Australia, Oceania, South America, native North America and elsewhere. The emphasis of the course is on understanding beliefs and rituals within their social contexts, and on broad comparison to derive insight into the general functions of religion in human life.

ANTH 332 Native Peoples of California 3 Units

Formerly: ANTH 7

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of the Native inhabitants of California from the prehistoric period to the present time, in addition to offering an introduction to the diversity and complexity of aboriginal California. It includes the environmental adaptation, material culture, social structure, ideology, and response to change. This course will provide a background for analysis of the impact of Europeans, problems of inter-cultural relations, and the current status of California Indians (e.g., relationship to the U.S. Government, education, and the development of the American Indian identity). In addition to gaining perspectives on the great diversity of aboriginal cultures in California, the student will examine the impact of the other Native and non-Native groups on those cultures.

ANTH 334 Native Peoples of North America 3 Units

Formerly: ANTH 8

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introductory survey of traditional American Indian societies. The course will describe our understanding of the peoples and cultures of Indigenous North America and emphasize native ecological adaptations, languages, social organizations, religion, mythologies and world view, and artistic representations. Perspectives on changes in traditional life and current position in American society will be included. A field trip is optional.

ANTH 341 Introduction to Linguistics 3 Units

Prerequisite: None
General Education: AA/AS Area B2 and F
Acceptable for credit: UC/CSU
54 hours lecture
This course will involve the student in the exploration of the role of language in social interaction and world view, minority languages and dialects, bilingualism, literacy, and the social motivation of language change. The student will also be introduced to the analytical techniques of linguistics and the demonstration of their relevance to language in sociocultural issues.

ANTH 480 Honors Physical Anthropology 3 Units

Formerly: ANTH 1H

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area A.
Acceptable for credit: UC (ANTH 300 or 480, maximum one course)/CSU
54 hours Lecture
This course is a seminar-style Honors-level introduction to the science of physical anthropology. Topics will include: the field of anthropology; the scientific method; genetics and inheritance; natural selection; principles and mechanics of evolution; evidence of evolution; modern human variation; living primates; and the fossil evidence for human evolution. This honors section uses an intensive instructional methodology designed to challenge motivated students.

ANTH 481 Honors Cultural Anthropology 3 Units

Formerly: ANTH 2H

Prerequisite: Eligibility for ENGWR 100 or 3.0 GPA.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC (ANTH 310 or 481, maximum one course)/CSU
54 hours Lecture
This course is a seminar-style introduction to the variety of customs, traditions, and forms of social organization in a variety of western and non-western societies. The main goals of the course are to understand the importance of culture for both the individual and societies. Anthropological concepts will be stressed include human culture and language, cultural relativism, holism, ethnocentrism, cross-cultural comparisons, fieldwork and theory. Topics include the nature of culture, subsistence methods, religion, linguistics, trade and economic systems, arts, kinship, marriage and family systems, technology and change. This Honors section uses an intensive instructional methodology designed to challenge motivated students.

ANTH 494 Topics in Anthropology 1-3 Units

Formerly: ANTH 44

Prerequisite: Eligibility for ENGWR 100 or ESLW 340 is required.
Acceptable for credit: CSU
54 hours Lecture
This course provides an examination of specific topics from an anthropological perspective. The particular subject to be covered each semester will be determined by the anthropology faculty and depend on topical events. Students should consult the schedule of classes for the specific topic.

Art ART ARTH

Associate in Arts Degree

Division of Humanities and Fine Arts
Chris Iwata, Dean
Auditorium 19a
916-558-2551

The art program is designed for students interested in transferring to a four-year university or college, as well as students interested in furthering their skills in the visual arts. A wide range of courses are offered, providing students experiences in drawing, painting, sculpture, ceramics, and other media.

Career Opportunities: Degrees in art allow individuals to work in the educational field as teachers, as well as in museums, as restorers, and in galleries. Primarily, individuals with an art degrees will work independently, producing works which are displayed in museums, galleries, and other exhibition spaces. Some artists will also work as graphic designers, illustrators, and in other commercial work.

Required Program	**Units**
ART 300, Elementary Drawing and Composition	3
ART 302, Elementary Drawing and Composition	3
ART 320, Design: Fundamentals	3
ART 370, Three Dimensional Design	3
ARTH 300, Introduction to Art	3
or ARTH 304, Ancient Art (3)	
or ARTH 306, Medieval Art (3)	
or ARTH 308, Renaissance Tradition in Art (3)	
or ARTH 310, Modern Art (3)	
or ARTH 312, Women in Art (3)	
or ARTH 324, Art of the Americas (3)	
or ARTH 328, Survey of African Art (3)	
or ARTH 330, Survey of African-American Art (3)	
or ARTH 332, Asian Art (3)	
A minimum of 3 units from the following:	3
Any other ART course.	
Total Units Required	**18**

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Transfer Program
Transfer students should consult the Requirements of Transfer Institutions section of this catalog and the Art or related major sections of the specific catalog for the institution to which they wish to transfer to determine admissions, general education, and major requirements. Consultation with an SCC counselor is urged.

Art (ART)

ART 121 Welding for the Artist 3 Units

Prerequisite: MIT 100 with a grade of "C" or better.
36 hours lecture, 54 hours laboratory
This course will cover metal sculpture techniques, design principles and materials used for sculpture on functional and nonfunctional art forms and on ferrous and non-ferrous metals. Techniques on the major welding and cutting processes-SMAW, MIG, TIG, plasma, gas welding and cutting. Safety will be an integral part of the course. This course may be taken twice for credit. Second Semester students will be expected to perform advanced precision welds and sculpture forms containing additional refinement in art. Students will need to provide their own gloves, boots, leather aprons and some ferrous and nonferrous metals. The welding department will provide face shields, welding and cutting machines, lab safety equipment, and some metals.

ART 300 Elementary Drawing and Composition 3 Units

Formerly: ART 11A

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course includes problems in observation and the translation of this experience into graphic terms by exploration of line, shape, volume, space, texture, light, and shadow. This course is a basic requirement for all art students. Field trips are required.

CELEBRATING 90 YEARS

ART 302 Elementary Drawing and Composition 3 Units

Formerly: ART 11B

Prerequisite: ART 300 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course includes problems in observation and the translation of this experience into graphic terms by exploration of line, shape, volume, space, texture, light, and shadow. This course is a basic requirement for all art students.

ART 304 Figure Drawing and Composition 3 Units

Formerly: ART 12A

Prerequisite: ART 300 or equivalent with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course includes a study of the aesthetic form of the human figure in historical context by analyzing and composing its structural elements with respect to line, tone, shape and color. Models draped and/or undraped will be used as subject. The course may be taken twice for credit.

ART 307 Rendering 3 Units

Formerly: ART 13

Prerequisite: ART 300 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course covers advanced problems in linear and tonal drawing techniques with emphasis on expression handling in a variety of media. This course may be taken twice for credit.

ART 310 Pen and Ink Drawing 3 Units

Formerly: ART 31

Prerequisite: None
Advisory: ART 300 with a grade of "C" or better or equivalent.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course emphasizes the fine art of black and white lines and mass drawing using a variety of pen and ink, brush and ink techniques, and materials. Studied are compositional and pictorial elements using line, light, space, texture, and value. This course is intended for those interested in fine art, illustration and graphic design and is not restricted to art majors. This course may be taken twice for credit.

ART 312 Portrait Drawing 3 Units

Formerly: ART 36

Prerequisite: ART 300 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to and exploration of the human image as a source of art. Stressed is the concentration on developing the skills needed to portray specific individuals, rather than a generalized image of people. This is primarily a practice course including elements of the history and traditions of portraiture. This course may be taken twice for credit.

ART 320 Design: Fundamentals 3 Units

Formerly: ART 14

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to the formal aspects of line, shape, tone and color and theories of their organization and composition. This course is a basic requirement for all art students. One field trip is required.

ART 322 Design: Image and Content 3 Units

Formerly: ART 15A

Prerequisite: None
Advisory: ART 320 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course involves further studies introducing the formal aspects of line, shape, tone, and color and theories of their organization and composition.

ART 323 Design: Color Theory 3 Units

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course covers studio problems in the use and understanding of color and its application to works of art, interior design and graphics; basics of color theory and color interchange. It also includes image and composition as related to the use of color both functionally and creatively.

ART 325 Introduction to Graphic Design 3 Units

Formerly: ART 30A

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course emphasizes layout, lettering, illustration, color, and design in various media applied to problems in advertising. This course may be taken twice for credit.

ART 326 Graphic Design Production 3 Units

Formerly: ART 30B

Prerequisite: ART 325 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides intermediate-level study of layout, illustration, color and type theory as applied to problems in two and three-dimensional graphic design. This course may be taken twice for credit.

ART 332 Oil Painting 3 Units

Formerly: ART 18

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to the medium and materials used in oil painting. Emphasized are the breakdown and analysis of composition with respect to color, pattern, line, texture, light, space, style and techniques and their application in both historical and contemporary works. This course may be taken twice for credit.

ART 334 Acrylic Painting 3 Units

Formerly: ART 19

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to the medium and materials used in acrylic painting. Emphasized are a breakdown and analysis of composition with respect to color, pattern, light, and space and their application in both historical and contemporary works. This course may be taken twice for credit.

ART 336 Watercolor Painting 3 Units

Formerly: ART 20A

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to the medium and materials used in water color. Included are a breakdown and analysis of composition with respect to color, pattern, light and space, style and techniques with their application in both historical and contemporary works. This course may be taken twice for credit.

ART 368 Printmaking: Etching and Relief 3 Units

Formerly: ART 23

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to printmaking. Emphasized are intaglio, sugar lift, aquatint, soft ground, hard ground, deep relief, drypoint and engraving. This course may be taken twice for credit.

ART 369 Printmaking: Lithography and Silk Screen 3 Units

Formerly: ART 24

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to the techniques of lithography on stone and silk screen on paper or fabric. Emphasized are relief methods, both wood and lino block prints, as well as calligraphy and monoprints. This course may be taken twice for credit.

ART 370 Three Dimensional Design 3 Units

Formerly: ART 16

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to sculptural tradition and discussion of recent developments. Students are exposed to both traditional and non-traditional use of materials, with emphasis on exploring new ideas. Included is the use of power tools and hand tools for wood and metal sculpture. The course may be taken twice for credit.

ART 372 Sculpture 3 Units

Formerly: ART 21A

Prerequisite: ART 370 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course will teach basic practice in the expressive use of form and color in space. Students will use a variety of media including plaster, wood, glass, cement, clay, and stone. The course stresses creative effort, development of individual expression, new ideas, and knowledge of technical processes. Students will learn to use historical and contemporary approaches in developing content. One field trip to a museum or gallery will be required.

ART 373 Sculpture 3 Units

Formerly: ART 21B

Prerequisite: ART 372.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course will teach advanced practice in the expressive use of form and color in space. Students will use a variety of media including plaster, wood, glass, cement, clay, and stone. The course stresses creative effort, development of individual expression, new ideas, and knowledge of technical processes. Students will learn to use historical and contemporary approaches in developing content. One field trip to a museum or gallery will be required.

ART 380 Techniques in Metal Design 3 Units

Formerly: ART 27A

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course includes individual exploration and independent research in decorative metals working in two and three dimensional forms. A concentrated study in elements of metal design and form will be projected into brazing, soldering, welding, laminating and casting. This course may be taken twice for credit. One field trip to an art gallery is required.

ART 381 Techniques in Metal Design 3 Units

Formerly: ART 27B

Prerequisite: Art 380 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an intermediate-level that offers individual exploration and independent research in decorative metals working in

two and three-dimensional forms. It is a concentrated study of intermediate work in elements of metal design and form, including enameling, engraving, laminating, and assembling design parts. This course may be taken twice for credit.

ART 390 Ceramics 3 Units

Formerly: ART 25A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory course devoted to practice, experimentation, and refinement in the art of ceramics. This first semester will include hand construction methods, glaze fundamentals, and beginning wheel throwing. One field trip is required.

ART 391 Intermediate Ceramics 3 Units

Formerly: ART 25B

Prerequisite: ART 390 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This is an intermediate level course devoted to practice experimentation and refinement in the art of ceramics. This second semester course will be devoted to intermediate work in wheel throwing, kiln operations, and glaze calculations.

ART 394 Wheel Thrown Ceramics, Beginning 3 Units

Formerly: ART 37

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is a comprehensive course in the art of wheel thrown ceramics. The course will provide students with a broad understanding of the ceramics process, from the excavation and composition of clays to the finished fire glazed wares. There will also be opportunities to participate in the ancient Japanese forms of ceramics known as Raku. Students at all skill levels in ceramics, from introductory through advanced, may take the course. The course may be taken twice for credit. One field trip required.

ART 400 Clay Sculpture 3 Units

Formerly: ART 43

Prerequisite: None
Advisory: ART 300 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory lab course in ceramics devoted to sculptural forms and experimentation combined with the investigation of mixed media. This course may be taken twice for credit.

ART 421 Film Making 3 Units
(Same as TA 331)

Formerly: ART 29A

Prerequisite: None
Acceptable for credit: UC (ART 421 or TA 332, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
This course emphasizes contemporary methods of film production, including low budget art films with a concern for the aesthetics of film making. Stressed are techniques of direction, lighting, titling, camera use, editing, film types, lenses and other aspects of cinema. Equipment and supplies for individual projects must be furnished by each student. Supplies and equipment are furnished for students working in group projects. This course may be taken twice for credit.

ART 430 Art and Children 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; completion of the advisory courses with a "C" or better.
General Education: AA/AS Area C
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course introduces the use of tools, media, and process for studio activity in the classroom. It includes the study of basic appreciation of art history, movements, and concepts. The course combines the activity of a beginning college art course with the method and approach to teaching children, seniors, and other populations and the method and appreciation of visual art.

ART 440 Artists' Materials and Techniques 3 Units

Formerly: ART 32

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to the general area of artists' materials and techniques. Included are the use of tools in construction of painting supports and techniques in matting, framing, and art display. Emphasized are pigment composition study and the appreciation of historical, traditional, and modern techniques in two and three dimensional media. This course may be taken twice for credit. One field trip is required.

ART 443 Art Gallery Operations 3 Units

Formerly: ART 33A

Prerequisite: None
Advisory: ARTH 300 with a grade of "C" or better or equivalent.
General Education: AA/AS Area C.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This first-semester course involves gallery preparation and maintenance as students learn gallery fundamentals in the visual arts. Involved are experiences in planning and installing exhibitions, inventory, and maintenance of a permanent art collection, and participation in staffing and docent activities and gallery and student Artreach programs.

ART 445 Art Gallery Operations 3 Units
Formerly: ART 33B

Prerequisite: ART 443 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This second-semester course involves further study of gallery preparation and maintenance as students learn gallery fundamentals in the visual arts. Involved are experiences in planning and installing exhibitions, inventory, and maintenance of a permanent art collection, and participation in staffing and docent activities and gallery and student Artreach programs. Second-semester students do advanced studies and work in campus exhibitions, Artreach community programs, and the Permanent Art Collection.

ART 450 Introduction to Digital Drawing 3 Units

Prerequisite: None
36 hours lecture, 54 hours laboratory
Acceptable for credit: CSU
This course is designed to address the traditional qualities of creative drawing and the unique properties of drawings produced using computer technology. The course includes problems in observation and expression and the translating of these experiences into graphic terms by exploration of gesture, line, texture, shape, volume, space, light, and shadow.

ART 494 Topics in Art .5-4 Units
Formerly: ART 42

Prerequisite: None
Advisory: ART 300 and ART 320.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture; 162 hours Laboratory
This course is designed to give students an opportunity to study topics not included in current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

ART 498 Work Experience in Art 1-4 Units
Formerly: ART 48

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
This course involves 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; and, 75 or 60 hours of related work experience for each additional unit. The course may be repeated when there is new or expanded learning on the job.

Art History (ARTH)

ARTH 300 Introduction to Art 3 Units
Formerly: ART 10

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course emphasizes the sources, developments, and problems of art expression. Included are illustrated lectures, readings, and discussions on the various manifestations of art. This course is recommended as a basis for the understanding of art. A field trip to an art exhibition is required.

ARTH 302 Art: Stone Age Through the Middle Ages 3 Units
Formerly: ART 3

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the architecture, sculpture, and painting of the Near East and Europe from the Stone Age through the Middle Ages. Art works of each period are discussed and related to respective cultures. Field trips and/or individual visitation to art galleries and museums are required.

ARTH 304 Ancient Art 3 Units
Formerly: ART 1

Prerequisite: None
Advisory: Eligibility for ENGWR 100.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the development of western art from the Prehistoric era through the Roman period. Emphasis is on ancient Near Eastern, Egyptian, Greek, and Roman cultures. Comparisons are made with other cultures.

ARTH 306 Medieval Art 3 Units
Formerly: ART 2

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the origin and development of Christian Medieval Art, including the Near Eastern, Greek, Roman, Byzantine, Celtic, Romanesque, and Gothic contributions. Comparisons are made with other traditions.

ARTH 308 Renaissance Tradition in Art 3 Units
Formerly: ART 4

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the development of realism and illusionism in Western art from its roots in the Greco-Roman world to its flowering in the 15th and 16th Centuries in Europe. Also emphasized are the Mannerist, Baroque, and 19th and 20th Century styles. Emphasis also is on the mode of perception created through the Renaissance tradition. A field trip to an art museum is required.

ARTH 310 Modern Art 3 Units
Formerly: ART 5

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a study and evaluation of 19th and 20th Century art forms in painting, sculpture, and architecture. Emphasis is on 20th Century art. Field trip required.

ARTH 312 Women in Art 3 Units
Formerly: ART 35

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of women's art from the Middle Ages to the present, including the art of women from both European and non-European cultures. Field trip required.

ARTH 320 Cultural Survey of World Art 3 Units
Formerly: ART 45

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the variety and diversity of important, but often underrepresented, cultures in America. The course is a survey of art forms and the contributions made by the ethnically diverse peoples who make up and contribute to the United States culture and character. To emphasize cultural diversity, instruction will include guest lectures by multicultural artists, as well as required field trips.

ARTH 324 Art of the Americas 3 Units
Formerly: ART 6

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course includes the study of the aboriginal arts and artists of the Americas. Emphasis is on the great Pre-Columbian cultures of Mexico and Peru and their contributions to colonial and modern art forms.

ARTH 328 Survey of African Art 3 Units
Formerly: ART 7

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the arts of black Africa in terms of its cultural and philosophical background; its materials and techniques; and its impact on 20th Century Western art. One field trip is required.

ARTH 330 Survey of African-American Art 3 Units
Formerly: ART 8

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course emphasizes the art of the Black person in America, including the African roots of such art; its background in colonial and republican America; the "Negro" Renaissance in the 1920's; and the contemporary scene.

ARTH 332 Asian Art 3 Units
Formerly: ART 9

Prerequisite: Eligibility for ENGWR 100.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introductory art survey of India, China and Japan, featuring their architecture, sculpture, painting and significant minor art forms from Neolithic to modern times. The immense contributions of East Asian arts to the world's art heritage are shown in their relation to and distinction from each other and to Western culture.

ARTH 334 International Contemporary Art 3 Units

Prerequisite: ARTH 300 or 310 with a grade of "C" or better.
General Education: AA/AS Area C and F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a worldwide survey of trends in art and architecture since 1980, with an emphasis on the diversity of contemporary global cultures. New art mediums, such as video, computer, and performance art are highlighted. Social and political concerns in art are another primary focus. Field trips are required.

Astronomy ASTR

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

ASTR 310 The Solar System 3 Units

Formerly: ASTR 1A

Prerequisite: None
Advisory: MATH 34 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a descriptive course treating the nature and evolution of the solar system. Topics will include the origins and characteristics of the planets and their satellites, comets, meteorites, and the sun. Emphasis will be placed on how astronomers gain and refine their knowledge of the Universe and interpret the latest results of planetary exploration.

ASTR 320 Stars, Galaxies, and Cosmology 3 Units

Formerly: ASTR 1B

Prerequisite: None
Advisory: MATH 34 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a descriptive course treating the nature and evolution of stars, galaxies, and the astronomical theories of the origin and evolution of the universe. Emphasis will be placed on how astronomers gain and refine their knowledge of the universe and interpret the latest results of space exploration.

ASTR 330 Introduction to Astrobiology 3 Units

Formerly: ASTR 30

Prerequisite: None
Advisory: MATH 34 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will investigate the scientific search for life beyond the Earth. Students will investigate the origin and evolution of stars, planets, and life on Earth, also estimating the likelihood of life existing elsewhere in the universe. Students will also study past, present, and planned attempts to communicate with possible alien civilizations in our Galaxy.

ASTR 400 Astronomy Laboratory 1 Unit

Formerly: ASTR 2

Prerequisite: None
Corequisite: ASTR 310 or 320
Advisory: MATH 34 with a grade of "C" or better.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course covers astronomical observation with the eye, telescopes, Charged Coupled Device (CCD) cameras, and spectrometers. The analysis and interpretation of astronomical data is emphasized.

ASTR 435 Frontiers in Astronomy 3 Units

Formerly: ASTR 25

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a continuation course for students of introductory astronomy who want an in-depth look at topics at the forefront of astronomical research. The topics covered will change from year to year, but will include such things as black holes, relativity and warped space time, dark matter recent developments in cosmology, quasars, gravitational waves, and extraterrestrial life. Emphasis will be placed on how astronomers gain and refine their knowledge of the universe and interpret the latest results of space exploration.

ASTR 494 Topics in Astronomy .5-4 Units

Formerly: ASTR 22

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in astronomy. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.

CELEBRATING 90 YEARS

Biology BIOL

Associate in Science Degree

Field Ecology, Career Certificate

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

Biologists work as laboratory technologists, x-ray and respiratory technologists, physical therapists, physicians, nurses and researchers in the medical field; as foresters, wildlife and fisheries biologists, field ecologists, ethnobiologists, botanists, entomologists, and others in field biology and ecology; as veterinary technicians, researchers and doctors in veterinary medicine; as agronomists, plant pathologists, enologists and pest management specialists in agriculture; as educators in K-12 schools, community colleges and universities; and in many other careers.

The major is designed to meet some of the common lower-division requirements for a major in Biology.

Required Program	**Units**
A minimum of 10 units from the following:	10
BIOL 402, Cell and Molecular Biology (5)	
BIOL 412, Plant Biology (5)	
BIOL 422, Animal Biology (5)	
BIOL 440, General Microbiology (4)	
BIOL 430, Anatomy and Physiology (5)	
BIOL 431, Anatomy and Physiology (5)	
A minimum of 8 units from the following:	8
The remaining eight (8) units may obtained by completion of any biology courses offered at Sacramento City College, including the ones listed above, or equivalent courses from other colleges or universities	
Total Units Required	**18**

Note: Students planning to transfer to four-year institutions are advised to meet with a counselor for general education requirements.

Associate in Science Degree (A.S.)

The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

CELEBRATING 90 YEARS

Field Ecology

Career Certificate

Program Information: The Field Ecology Certificate program provides the student with the training and education necessary to succeed in governmental agency and private businesses/non-profits that provide field ecology services. The students will have the opportunity to learn ecological field methods including identification of flora and fauna, quantitative assessment methods, wetland delineations, regulatory processes, restoration ecology, and geographic information systems. In addition to field methods, students will receive education in general ecological principles.

Career Opportunities: The Field Ecology Certificate can fulfill the needs of agencies and private businesses/non-profits for entry-level ecological/environmental technicians and field biologists. Entry-level jobs can be found in governmental resource agencies at the federal, state, and local levels and in private environmental consulting businesses and private non-profit environmental organizations. This certificate program will provide advancement opportunities to those currently employed in the environmental and resource professions. In addition to updating of job skills, this certificate will provide new training and education opportunities for returning and continuing students.

Required Program **Units**

Two Pathways:

All required courses (13 units) and,
No more than five (5) units from Pathway 1, and
No less than five (5) units from Pathway 2.
OR
All required courses (13 units), and
No less than ten (10) units from Pathway 2.

Required Courses:

BIOL 305, Natural History 4
BIOL 320, Field Botany 3
BIOL 360, Environmental Regulations 3
BIOL 362, Field Methods in Ecology 3

Pathway 1:

BIOL 412, Plant Biology, OR
BIOL 422, Animal Biology 5
A minimum of 5 units from the following: ..... 5[1]
CHEM, 320 Environmental Chemistry (4)
or BIOL 370, Introduction to Marine Environment (4)
or BIOL 494, Topics in Biology (0.5 - 4)
or GEOG 330, Introduction to Geographic Information Systems (3)
or GEOG 332, Introduction to Desktop GIS (2)
or GEOG 333, Intermediate Desktop GIS (2)
or GEOL 345, Geology of California (3)
or BIOL 323, Ethnobotany (4)
or BIOL 364, Restoration Ecology (2)
or BIOL 390, Natural History Field Study (0.5 - 4)
or BIOL 350, Environmental Biology (3)
or BIOL 330, Natural History of Insects (3)
or BIOL 352 Conservation Biology at ARC (4)
Pathway 1 Units: 10

Total Units **23**

Pathway 2:

A minimum of 10 units from the following: **10[2]**

GEOG 330, Introduction to Geographic Information Systems (3)
or BIOL 494, Topics in Biology (0.5 - 4)
or BIOL 370, Introduction to Marine Environment (4)
or BIOL 364, Restoration Ecology (2)
or BIOL 323, Ethnobotany (4)
or BIOL 330, Natural History of Insects (3)
or BIOL 350, Environmental Biology (3)
or BIOL 390, Natural History Field Study (0.5 - 4)
or GEOL 345, Geology of California (3)
or CHEM 320, Environmental Chemistry (4)
or GEOG 333, Intermediate Desktop GIS (2)
or GEOG 332, Introduction to Desktop GIS (2)
or BIOL 352, Conservation Biology at ARC (4)
Pathway 2 Units 10

Total Units Required **23**

[1]BIOL 494, California Oaks and Oak Woodlands

[2]BIOL 494, California Oaks and Oak Woodlands

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Biology (BIOL)

BIOL 100 Introduction to Concepts of Human Anatomy and Physiology — 3 Units

Formerly: BIOL 60

Prerequisite: None
Advisory: AH 110, ENGRD 110, or ESLR 320, and ENGWR 50 or ESLW 310. Students are advised to have completed these courses with grades of "C" or better.
General Education: AA/AS Area A.
54 hours Lecture
This is a lecture course required for students entering the licensed vocational nursing and occupational therapy assistant programs. It is designed for students having little or no background in the biological sciences. The course is also open to any students wishing to fulfill their general education requirement, or those intending to pursue studies in the biological sciences who need to strengthen or develop a vocabulary in human anatomy and physiology.

BIOL 305 Natural History — 4 Units

Formerly: BIOL 10

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC (BIOL 305 or 330, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
The course is a survey of ecosystems in California, with a special emphasis on the relationships between the species and general ecological concepts. Students will explore the environment and diversity of organisms occurring in our geographical area, but will be able to apply this knowledge to other areas as well. Attendance on a minimum of one or two field trips is required. The course is designed for the non-science major.

BIOL 308 Contemporary Biology — 3 Units

Formerly: BIOL 28

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after BIOL 402)/CSU
54 hours Lecture
This course is a survey of biological science intended to equip the student to think and act intelligently with respect to contemporary issues in biology. Biological topics are introduced in a framework of natural selection. The course is for those not intending to major in biological sciences, particularly liberal studies majors. Genetics is a significant focus of the course, as are origin of cellular life, cellular physiology, and diversity of organisms. A laboratory illustrating the principles introduced is offered as an optional accompanying course.

BIOL 309 Contemporary Biology Laboratory — 1 Unit

Formerly: BIOL 28L

Prerequisite: None
Advisory: Concurrent enrollment in BIOL 308.
Acceptable for credit: UC (no credit if taken after BIOL 402)/CSU
54 hours Laboratory
This course is an optional laboratory accompaniment to BIOL 308. The sessions will illustrate biological phenomena and their relationship to contemporary concerns and discoveries in biology.

BIOL 320 Field Botany — 3 Units

Formerly: BIOL 21

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed for both science and non-science students to learn about plant taxonomy. Students will learn about the classification of flowering plants, how to identify plant species, and will become familiar with native plants of California as well as their ecological relationships and historical uses. A plant collection and a minimum of 10 field trips are required.

BIOL 323 Ethnobotany — 4 Units

Formerly: BIOL 23

Prerequisite: None
General Education: AA/AS Areas A, F
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This introductory course focuses on the concepts, questions, and methods of ethnobotany, the scientific study of the interactions between plants and humans. Students will use the scientific method to investigate the ecological and biological traits of plants, how these traits have shaped multicultural human use, and have also been affected by humans. Topics include plant structure and reproduction, biodiversity and plant evolution in natural and cultivated systems, traditional ecological knowledge and management techniques, ethnobotanical research methods and ethical issues, and a comparison of plant use by various cultures for food, medicine, shelter, basketry, and dyes. Laboratory topics include plant identification, experimental investigation of medicinal and food value of selected plants, traditional preparation of selected plants, preparation of herbarium specimens, and analysis of plant fibers and dyes. One field trip is required.

BIOL 330 Natural History of Insects 3 Units

Formerly: BIOL 8

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC (BIOL 330 or 305, maximum one course)/CSU
54 hours Lecture
This course provides an introduction to the science of Entomology. Approximately eighty percent (80%) of all known species of animals are insects, therefore, they often have a profound effect on human civilization. Insects are extremely successful animals, and despite their small size, they affect many aspects of human lives. All varieties of natural and modified ecosystems, both terrestrial and aquatic, support communities of insects that present a variety of lifestyles, forms, and functions. Through the study of insects, students can observe the major principles of numerous fields of study including ecology, ethology (behavioral ecology), population, and community ecology, among others, right in their own backyards. Due to their diversity and presence in all kinds of environments, insects provide a good framework for making scientific observations. Attendance on one field trip is required.

BIOL 342 The New Plagues: New and Ancient Infectious Diseases Threatening World Health 3 Units

Formerly: BIOL 31

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will explore the biology, epidemiology, and pathology of selected pathogenic prions, viruses, bacteria, protozoa, and helminthes threatening public health worldwide. The course will also explore how human behavior and human activities have catalyzed the emergence of new infectious diseases and re-emergence of ancient plagues.

BIOL 350 Environmental Biology 3 Units

Formerly: BIOL 14

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
Basic biological and ecological principles are discussed in relation to environmental disruptions. Human interactions with the environment and their meaning for animals and plants are examined. The course is a discussion of basic ecological processes as a basis for understanding environmental problems and formulating strategies for their solution. One field trip is required for this course.

BIOL 360 Environmental Regulations 3 Units

Formerly: BIOL 33

Prerequisite: BIOL 305.
Advisory: ENGWR 100.
Acceptable for credit: CSU
54 hours Lecture
This course examines the environmental regulatory process in California. Federal and California environmental laws will be studied and discussed. Relevant laws include: The National Environmental Policy Act, Federal Endangered Species Act, Marine Mammal Protection Act, Clean Water Act, California Environmental Quality Act, California Endangered Species Act, California Fish and Game Code, California Coastal Act. In addition, the jurisdictional wetland delineation process will be studied in detail including fieldwork to demonstrate the process. Students will be introduced to these regulations during lectures and will participate in discussions and examinations of case studies involving these laws. Good writing skills are advised for this course. Field trips are required.

BIOL 362 Field Methods in Ecology 3 Units

Formerly: BIOL 34

Prerequisite: BIOL 305 AND BIOL 320 or equivalent college-level courses.
Advisory: ENGWR 100.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to methods for sampling and studying of a variety of organisms in the field with a particular emphasis on the vegetation, fish, and wildlife of the area. The goals are to gain experience and develop skills in the following areas: identification of plants and animals, first-hand knowledge of a wide array of organism life histories, quantitative field research techniques and procedures applicable to plants and animals, and recording of data and observations in a field notebook. Required field trips are to local habitats and focus on seasonally relevant events and processes.

BIOL 364 Restoration Ecology 2 Units

Formerly: BIOL 35

Prerequisite: None
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
Restoration ecology is the science of creation, management, and perpetuation of wildlife habitat. This course will examine this subject through lectures about existing and on-going habitat restoration techniques in the Sacramento area and visits to these restored areas to observe firsthand the restoration methods, management, and success of the sites. Students will have the opportunity to meet the scientists currently working in this field and employing these technologies. Field trips are required.

BIOL 370 Introduction to Marine Environment 4 Units

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to marine biology and oceanography. It includes the study of marine vertebrates and invertebrates, tide pool and coastal ecology, sea water, tides, currents, marine geology, and coastal processes. Instruction includes both lab and lecture, and required field trips to study intertidal plants and animals and coastal ecology. The required field trips will involve tent camping over one two-day and one three-day weekend and will focus on the North and Central California Coast. Field trip dates will be announced at the first class meeting.

BIOL 390 Natural History Field Study .5-4 Units

Formerly: BIOL 24

Prerequisite: None
Acceptable for credit: CSU
3-24 hours Lecture; 18-144 hours Laboratory
Ecology and natural history are covered in the field as well as birds, mammals, fish, insects, reptiles, and amphibians. Plants and geology will be studied and their interrelations investigated. The course will be offered in an appropriate area, and students will be responsible for providing their own lodging, meals, and necessary equipment. Camp sites will be available. This course is ideal for future teachers, parents, resource management majors, and those interested in the biological sciences. Units are awarded based on both lecture and laboratory (one unit per 18 hours lecture and/or 54 hours laboratory or a combination of lecture and laboratory hours). This course may be taken four times under a new topic or destination.

BIOL 402 Cell and Molecular Biology 5 Units

Formerly: BIOL 5A

Prerequisite: Completion of CHEM 400 with a grade of "C" or better, or CHEM 305 and Intermediate Algebra with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This is the first semester of a three-semester sequence in general biology designed for biology majors. It is an introduction to many aspects of living cells, with an emphasis on the molecular level of organization. Topics include an introduction to biological molecules, enzymes, cell structure, respiration, photosynthesis, reproduction, genetics and an introduction to statistical analysis. The course also covers molecular genetics, structure and function of viruses, DNA technology and genetic engineering techniques.

BIOL 412 Plant Biology 5 Units

Formerly: BIOL 5B

Prerequisite: Completion of BIOL 402 or equivalent course with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This course is part of a three-semester general biology sequence designed for biology majors. It builds upon and applies concepts developed in BIOL 402 to the study of plants and general ecology. Topics covered include the diversity, taxonomy, and evolutionary trends observed among the cyanobacteria, algae, fungi, and plants, with special emphasis on higher plants; the comparative anatomy and physiology of higher plants; and general ecology, including population, community, and ecosystem dynamics. Two field trips are required.

BIOL 422 Animal Biology 5 Units

Formerly: BIOL 5C

Prerequisite: Completion of BIOL 402 or an equivalent college level Cell and Molecular Biology course with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This is part of a three-semester sequence in general biology designed for biology majors. It applies concepts developed in Biology 402 to the study of animals and evolution. Topics covered include animal diversity and classification, comparative anatomy and physiology, animal embryology and development. Additional topics include an introduction to the population genetics, macro- and microevolution, and speciation. Emphasis will be placed on the evolutionary relationships among animals, their adaptations to different environments, and the evolutionary origin of novel characteristics throughout the Animal Kingdom.

BIOL 430 Anatomy and Physiology 5 Units

Formerly: BIOL 25

Prerequisite: Completion of CHEM 305 or CHEM 400 with a grade of "C" or better.
Advisory: Completion of AH 110 and CHEM 306 with grades of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This course is an introduction to normal structure and function in humans. The course stresses an understanding of physiological principles as related to body structure. The course includes study of the basic principles of physiology and anatomy, general histology, and the integumentary, skeletal, muscular and nervous systems. BIOL 431 follows BIOL 430 and is necessary for completion of the study of human anatomy and physiology.

BIOL 431 Anatomy and Physiology 5 Units

Formerly: BIOL 26

Prerequisite: Completion of BIOL 430 or the equivalent with a grade of "C" or better. If an equivalent course was taken at another college, the same content must have been included (introduction to anatomy, histology, the integumentary, skeletal, muscular, and nervous systems).
Advisory: AH 110 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
BIOL 431 is the continued study of normal structure and function in humans. Included in the course is the study of the circulatory, respiratory, digestive, urinary, reproductive, and endocrine systems. Special topics included in the course are pH, fluids, and electrolytes.

BIOL 440 General Microbiology 4 Units

Formerly: BIOL 6

Prerequisite: CHEM 400, 305 or equivalent with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 72 hours Laboratory
The course includes the study of selected morphological, physiological, and biochemical aspects of representative micro-organisms. The laboratory includes aseptic technique, metabolism, genetics, and taxonomy. This course is intended for students in allied health majors.

BIOL 464 Dinosaurs and the Science of Life 3 Units

Formerly: BIOL 19

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course investigates the evolution, form, function and extinction of dinosaurs as a means of introducing students to scientific principles that are common to all forms of life on Earth. Topics will include scientific methodology; the mechanisms of evolution; the structure, early history and geologic processes of the Earth; the evolutionary history of life on Earth; the diversity, ecology, physiology and behavior of dinosaurs; birds as dinosaurs. Additional topics will include proposed mechanisms of dinosaur extinction including meteor impacts, volcanic plume events, global winters, global greenhouse warming, acid rain, and how each may occur today; the structure and function of DNA, cellular reproduction, DNA and cloning technologies and whether they can be used to resurrect extinct organisms such as dinosaurs.

BIOL 465 Dinosaurs and the Science of Life Laboratory 1 Unit

Prerequisite: None
Corequisite: Completion of or concurrent enrollment in BIOL 464.
Acceptable for credit: UC (only if taken after or concurrently with BIOL 464)/CSU
54 hours Laboratory
This course is an optional laboratory component to accompany BIOL 464. The laboratory sessions will allow students to engage in hands-on investigations to broaden and deepen their understanding of concepts discussed and developed in BIOL 464. Students may take this course either concurrently with, or any time after completion of, BIOL 464.

BIOL 466 Science, Pseudoscience, and Quackery 3 Units

Formerly: BIOL 37

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an explanation of science; from fact to fiction. It will include a brief history of the scientific method with comparisons of legitimate and illegitimate science. The course also includes pseudoscientific ideas and the reasons why they are considered pseudoscientific. A major theme running through this course will be the use of critical thinking. Examples will be drawn primarily from the biological sciences.

BIOL 494 Topics in Biology .5-4 Units

Formerly: BIOL 22

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in biology. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplicating of topics.

BIOL 496 Teaching Assistant in Biology 1-4 Units

Formerly: BIOL 46

Prerequisite: A grade of "B" or better in the course for which the student is going to be a teacher aide.
Acceptable for credit: CSU
27 hours Lecture; 81 hours Laboratory
This course is for students who want to develop an in-depth understanding of the fundamentals of Biology and learn to work with individual and small groups of students.

Business
BUS BUSTEC MGMT MKT RE

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

Accounting (see Accounting)

Business, General, Degree

Business, Transfer, Degree

Bookkeeping and Office Management, Degree and Career Certificate

Business, Management, Degree and Career Certificate

Business, Retail Management, Career Certificate

Business, Retail Management, Small Business Management, Degree and Career Certificate

Business, Marketing, Degree and Career Certificate

Business, Marketing, Advertising, Degree

Business, Office Administration, Degree and Career Certificates

Clerical General Office, Career Certificate, Level A

Introduction to Computerized Office Technologies, Career Certificate, Level B

Business Operations and Management, Career Certificate, level C

Capstone Office Simulation with an Internship, Degree and Career Certificate, Level D

Business - Real Estate, Degree and Career Certificate

Business, Customer Service, Certificate of Completion

Program Information: Within the Business area, specific majors are available in Accounting, Advertising, Bookkeeping, Customer Service, Management, Marketing, Office Administration, Real Estate, Retail Management, and Small Business Management. Further information on these majors can be found under the specific program.

The business-required courses provide a framework around which business students may structure a program to prepare themselves for the workplace. These courses provide the minimum knowledge, skills, and abilities required to get a job and successfully complete coursework in both two- and four-year business degree programs.

Career Opportunities: Careers in business are exploring in the 21st Century. Business majors become accountants, consultants, entrepreneurs, managers, human resource analysts, money managers, marketing sales representatives, and real estate professionals, just to name a few. With a business degree, students are prepared to work on the business side of virtually any industry from banking to retail, insurance to advertising, for-profit to non-profit. The possibilities are unlimited.

Business, General
Associate in Science Degree

Required Program

ACCT 101, Fundamentals of College Accounting (3)
or ACCT 301, Financial Accounting (4) . . .3-4
BUSTEC 300.2, Beginning Keyboarding/ Applications: Basic Document Formatting 1
BUS 300, Introduction to Business. 3
ECON 302, Principles of Macroeconomics (3)
or ECON 100, Introduction to Economics (3). 3
CISC 300, Computer Familiarization 1
BUS 330, Managing Diversity in the Workplace 3
BUS 345, Law and Society (3)
or BUS 340, Business Law (3) 3
BUS 310, Business Communications 3
BUS 100, English for the Professional 3
CISA 305, Beginning Word Processing 2
CISA 310, Introduction to Electronic Spreadsheets 1
CISA 320, Introduction to Database Management 1
MGMT 304, Introduction to Management Functions (3)
or MGMT 372, Human Relations and Organizational Behavior (3) 3

MKT 300, Principles of Marketing 3
A minimum of 3 units from the following: 3
BUS 106, Business Mathematics (1 - 3)
ECON 310, Economic Statistics (3)

Total Units Required **36-37**

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus the general education requirements, plus sufficient electives to meet a 60-unit total.

Business, Transfer

Associate in Arts Degree

This program is designed for those who plan to transfer to a four-year university. It meets the common core of lower-division courses required by most colleges and universities. Students should confer with their counselor regarding the specific transfer and general education requirements of the college they wish to attend. Some colleges and universities may have different requirements.

Required Program	**Units**
ACCT 301, Financial Accounting	4
ACCT 311, Managerial Accounting	4
BUS 300, Introduction to Business	3
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 340, Presentation Graphics	2
CISC 305, Introduction to the Internet	1
CISC 320, Operating Systems	1
ECON 302, Principles of Macroeconomics	3
ECON 304, Principles of Microeconomics	3
STAT 300, Introduction to Probability and Statistics	4
MATH 340, Calculus for Business and Economics (3) or MATH 342, Modern Business Mathematics (3)	3
Total Units Required	**31**

Suggested Electives
BUS 340, CISA 320.

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Bookkeeping and Office Management

Associate in Science Degree
Career Certificate

Career Opportunities: The Bookkeeping and Office Management curriculum provides education for employment in all sizes and types of business firms including government agencies. Students should have an aptitude for conceptual understanding as well as computational work and be willing to undertake the intensive study necessary for success. Many courses are available in a nine-week format.

Required Program	**Units**
ACCT 101, Fundamentals of College Accounting, or ACCT 301, Financial Accounting	3-4
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
BUS 300, Introduction to Business	3
BUS 106, Business Mathematics, or ECON 310, Economic Statistics	3
CISC 300, Computer Familiarization	1
Total Core Units	**11-12**

Concentration Requirements

ACCT 301, Financial Accounting	4
BUS 310, Business Communications	3
BUS 100, English for the Professional	3
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
MGMT 372, Human Relations and Organizational Behavior	3
MGMT 304, Introduction to Management Functions	3
MGMT 309, Introduction to Supervision	3
Total Units Required	**33-34**

Both ACCT 301 and ACCT 101 are required for this program. Both courses may satisfy either the Core or Concentration Requirements.

Suggested Electives
ACCT 341; BUS 345, 498; CISA 306, 311, 320, 321; CISC 320.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Business, Management

Associate in Science Degree
Career Certificate

This program is designed for those who wish to progress to positions of responsibility in Business from entry-level positions in management and related business areas. This curriculum has a two-fold purpose: (1) to assist students in becoming desirable entry-level employees; and, (2) to help students acquire the knowledge, skill, and understanding needed as preparation for positions in management.

Required Program for the Degree	**Units**
ACCT 101 Fundamentals of College Accounting (3) or ACCT 301, Financial Accounting (4)	3-4
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
BUS 300, Introduction to Business	3
CISC 300, Computer Familiarization	1
BUS 330, Managing Diversity in the Workplace	3
MGMT 304, Introduction to Management Functions	3
MGMT 309, Introduction to Supervision	3
MGMT 372, Human Relations and Organizational Behavior	3
A minimum of 3 units from the following:	3
BUS 106, Business Mathematics (1 - 3)	
ECON 310, Economic Statistics (3)	
A minimum of 9 units from the following:	9
BUS 340, Business Law (3)	
or BUS 345, Law and Society (3)	
BUS 310, Business Communications (3)	
CISA 305, Beginning Word Processing (2)	
CISA 310, Introduction to Electronic Spreadsheets (1)	
CISA 320, Introduction to Database Management (1)	
ECON 302, Principles of Macroeconomics (3)	
or ECON 100, Introduction to Economics (3)	
A minimum of 6 units from the following:	6
BUS 350, Small Business Management/Entrepreneurship (3)	
MGMT 306, Introduction to Public Administration (3)	
MGMT 308, Personnel and Human Resources Management (3)	
MKT 300, Principles of Marketing (3)	
MKT 316, Public Relations (3)	
Total Units Required	**38-39**

Suggested Electives
ACCT 311, BUS 320, BUS 498, ECON 304.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Business, Management

Career Certificate

Required Program for the Certificate	Units
BUS 330, Managing Diversity in the Workplace	3
MGMT 304, Introduction to Management Functions	3
MGMT 309, Introduction to Supervision	3
MGMT 372, Human Relations and Organizational Behavior	3
A minimum of 6 units from the following:	6
MGMT 306, Introduction to Public Administration (3)	
MGMT 308, Personnel and Human Resources Management (3)	
MKT 300, Principles of Marketing (3)	
BUS 350, Small Business Management/Entrepreneurship (3)	
MKT 316, Public Relations (3)	
Total Units Required	**18**

Career Certificate
A Career Certificate may be obtained by completing the concentration requirements (18 units) with grades of "C" or better.

Business, Retail Management

Career Certificate

A Retail Management Certificate will prepare students for entry into the exciting field of retailing. Students may choose from a variety of retail management careers, which may include retail management in clothing, furniture, grocery, computers, books, dry cleaners, hair salons, restaurants, and other retail establishments.

Required Program	Units
ACCT 101, Fundamentals of College Accounting (3) or ACCT 301, Financial Accounting (4)	3-4
BUS 310 Business Communications (3) or BUS 100, English for the Professional (3)	3
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
MGMT 304, Introduction to Management Functions	3
MGMT 308, Personnel and Human Resources Management	3
MGMT 372, Human Relations and Organizational Behavior	3
MKT 300, Principles of Marketing	3
MKT 312, Retailing	3
COMM 301, Introduction to Public Speaking (3) or COMM 321, Interpersonal Communication (3)	3
A minimum of 3 units from the following:	3
BUS 106, Business Mathematics (1 - 3)	
Total Units Required	**30-31**

Career Certificate
A Career Certificate may be obtained by completion of the required courses with grades of "C" or better.

Business, Small Business Management

Associate in Science Degree
Career Certificate

This program is designed for those who aspire to start their own businesses or pursue positions in management in smaller companies. The curriculum has a two-fold purpose: 1) to acquaint students with the unique aspects of small businesses, and 2) to help students acquire the knowledge, skill, and understanding they need as preparation for positions in management.

Required Program for the Degree:	Units
ACCT 101, Fundamentals of College Accounting (3) or ACCT 301, Financial Accounting (4)	3-4
BUS 300, Introduction to Business	3
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
CISC 300, Computer Familiarization	1
MKT 300, Principles of Marketing	3
MKT 310, Selling Professionally	3
MKT 314, Advertising	3
BUS 350, Small Business Management/Entrepreneurship	3
A minimum of 3 units from the following:	3
BUS 106, Business Mathematics (1 - 3)	
ECON 310, Economic Statistics (3)	
A minimum of 9 units from the following:	9
BUS 310, Business Communications (3)	
BUS 340, Business Law (3)	
or BUS 345, Law and Society (3)	
CISA 305, Beginning Word Processing (2)	
CISA 310, Introduction to Electronic Spreadsheets (1)	
CISA 320, Introduction to Database Management (1)	
ECON 302, Principles of Macroeconomics (3)	
or ECON 100, Introduction to Economics (3)	
MGMT 304, Introduction to Management Functions (3)	
MGMT 372, Human Relations and Organizational Behavior (3)	
A minimum of 6 units from the following:	6
BUS 210, The Business Plan (1)	
BUS 212, Marketing for Small Businesses (1)	
BUS 214, Financing a Small Business (1)	
BUS 216, Essential Records for the Small Business (1)	
BUS 218, Management Skills for the Small Business (1)	
BUS 220, Retailing and Merchandising for the Small Business (1)	
MGMT 304, Introduction to Management Functions (3)	
MGMT 372, Human Relations and Organizational Behavior (3)	
MKT 330, Internet Marketing (3)	
Total Units Required	**38-39**

Suggested Electives
ACCT 341, BUS 320, BUS 498, MGMT 309, MKT 312.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, concentration requirements, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Business, Small Business Management

Career Certificate

Required Program for the Certificate: **Units**

ACCT 101, Fundamentals of College Accounting 3
BUS 300, Introduction to Business 3
BUS 350, Small Business Management/Entrepreneurship 3
MKT 300, Principles of Marketing 3
A minimum of 3 units from the following: 3
- BUS 210, The Business Plan (1)
- BUS 212, Marketing for Small Businesses (1)
- BUS 214, Financing a Small Business (1)
- BUS 216, Essential Records for the Small Business (1)
- BUS 218, Management Skills for the Small Business (1)
- BUS 220, Retailing and Merchandising for the Small Business (1)

A minimum of 3 units from the following: 3
- BUS 310, Business Communications (3)
- BUS 320, Concepts in Personal Finance (3)
- MGMT 304, Introduction to Management Functions (3)
- MGMT 372, Human Relations and Organizational Behavior (3)
- MKT 314, Advertising (3)
- MKT 312, Retailing (3)
- MKT 330, Internet Marketing (3)
- MKT 316, Public Relations (3)

Total Required for Certificate **18**

Career Certificate
A Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Business, Marketing

Associate in Science Degree
Career Certificate

Career Opportunities: The marketing program is designed for those who wish to pursue a career in marketing, marketing communications, or sales and progress into positions of higher responsibility. This curriculum has a two-fold purpose: 1) to introduce students to the principles of marketing, and 2) to help students acquire the knowledge, skill, and understanding they need as preparation for positions in Marketing.

Required Program for the Degree: **Units**

ACCT 101, Fundamentals of College Accounting (3)
or ACCT 301, Financial Accounting (4) 3-4
BUS 300, Introduction to Business 3
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting 1
CISC 300, Computer Familiarization 1
MKT 300, Principles of Marketing 3
MKT 310, Selling Professionally 3
MKT 314, Advertising 3
A minimum of 3 units from the following: 3
- BUS 106, Business Mathematics (1 - 3)
- ECON 310, Economic Statistics (3)

A minimum of 9 units from the following: 9
- BUS 310, Business Communications (3)
- BUS 340, Business Law (3)
  or BUS 345, Law and Society (3)
- CISA 305, Beginning Word Processing (2)
- CISA 310, Introduction to Electronic Spreadsheets (1)
- CISA 320, Introduction to Database Management (1)
- ECON 302, Principles of Macroeconomics (3)
  or ECON 100, Introduction to Economics (3)
- MGMT 304, Introduction to Management Functions (3)
- MGMT 372, Human Relations and Organizational Behavior (3)

A minimum of 9 units from the following: 9
- BUS 310, Business Communications (3)
- BUS 350, Small Business Management/Entrepreneurship (3)
- MKT 312, Retailing (3)
- MKT 316, Public Relations (3)
- MKT 330, Internet Marketing (3)

Total Units Required **38-39**

Suggested Electives
BUS 212, BUS 220, BUS 330, BUS 498.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Business, Marketing

Career Certificate

A Marketing Career Certificate will provide a general concentration covering all aspects of marketing. Students will gain skills that will prepare them for a successful career in marketing. Marketing is a dynamic area of study that includes a variety of career opportunities, which include advertising, sales, entrepreneurship, retailing, marketing services, public relations, and marketing management.

Required Program for the Certificate:	**Units**
BUS 300, Introduction to Business	3
MKT 300, Principles of Marketing	3
MKT 310, Selling Professionally	3
MKT 314, Advertising	3
A minimum of 6 units from the following:	6
BUS 210, The Business Plan (1)	
BUS 212, Marketing for Small Businesses (1)	
BUS 220, Retailing and Merchandising for the Small Business (1)	
BUS 330, Managing Diversity in the Workplace (3)	
MGMT 372, Human Relations and Organizational Behavior (3) or MGMT 304, Introduction to Management Functions (3)	
MKT 312, Retailing (3)	
MKT 316, Public Relations (3)	
MKT 330, Internet Marketing (3)	
Total Units Required	**18**

Career Certificate

A Career Certificate may be obtained by completion of the Required Program with grades of "C" or better.

Business, Marketing, Advertising

Associate in Science Degree

This program provides the knowledge and skills necessary for advertising work with print media, electronic and broadcast media, retail and general business organizations and advertising agencies.

Required Program	**Units**
ACCT 101, Fundamentals of College Accounting (3) or ACCT 301, Financial Accounting (4)	3-4
BUS 300, Introduction to Business	3
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
CISC 300, Computer Familiarization	1
MKT 300, Principles of Marketing	3
MKT 310, Selling Professionally	3
MKT 314, Advertising	3
A minimum of 3 units from the following:	3
BUS 106, Business Mathematics (1 - 3)	
ECON 310, Economic Statistics (3)	
A minimum of 9 units from the following:	9
BUS 310, Business Communications (3)	
BUS 345, Law and Society (3) or BUS 340, Business Law (3)	
CISA 305, Beginning Word Processing (2)	
CISA 310, Introduction to Electronic Spreadsheets (1)	
CISA 320, Introduction to Database Management (1)	
ECON 302, Principles of Macroeconomics (3) or ECON 100, Introduction to Economics (3)	
MGMT 304, Introduction to Management Functions (3)	
MGMT 372 Human Relations and Organizational Behavior (3)	
A minimum of 9 units from the following:	9
ART 300, Elementary Drawing and Composition (3)	
ART 302, Elementary Drawing and Composition (3)	
ART 320, Design: Fundamentals (3)	
ART 322, Design: Image and Content (3)	
GCOM 300, Prepress and the Printing Process (3)	
GCOM 310, Beginning Page Layout, Using Adobe Pagemaker (3)	
MKT 316, Public Relations (3)	
MKT 330, Internet Marketing (3)	
PHOTO 301, Beginning Photography (3)	
Total Units Required	**38-39**

Electives

BUS 212, BUS 498.

Associate in Science Degree (A.S.)

The Associate in Science degree may be obtained by completing required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Business, Office Administration

Associate in Science Degree
Career Certificate

Clerical General Office, Career Certificate, Level A
Introduction to Computerized Office Technologies, Career Certificate, Level B
Business Operations and Management Technology, Career Certificate, Level C
Capstone Office Simulation with an Internship, Degree and Career Certificate, Level D

The Office Administration Program offers program options with Career Certificates in progressively responsible levels in the related career path. Many courses are available in a nine-week format.

Office Administration

Clerical General Office
Career Certificate, Level A

Career Opportunities: This program is designed for students who are interested in working in a business office. Students will receive classroom instruction that will equip them to be successful in an office environment, followed by on-the-job work experience. After completion of this career certificate, possible job opportunities will be: Office Assistant, General Clerical, Office Clerk, and Information Clerk.

Required Program	**Units**
CISC 300, Computer Familiarization (1) or CISC 310, Introduction to Computer Information Science (3)	1-3
BUS 310, Business Communications	3
BUS 100, English for the Professional	3
BUSTEC 100.1, Keyboarding Skills: Beginning (1) or BUSTEC 300.1, Beginning Keyboarding/Applications: Introduction (1)	1
BUSTEC 110, Business Procedures for Professional Success	3
COMM 321, Interpersonal Communication	3
A minimum of 3 units from the following: BUS 106, Business Mathematics (1-3)	3
A minimum of 1 unit from the following: BUS 498, Work Experience in Business (1-4)	1
Total Units Required	**18-20**

Suggested Electives:
COMM 301, BUSTEC 101

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Office Administration

Introduction to Computerized Office Technologies

Career Certificate, Level B

Career Opportunities: This program prepares students for employment as Information Clerk, File Clerk, Receptionist, and General Office Clerk. Many courses are available in a nine-week format.

Required Program	**Units**
BUSTEC 300.1, Beginning Keyboarding/Applications: Introduction	1
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
BUSTEC 300.3, Beginning Keyboarding/Applications: Advanced Document Formatting	1
BUS 310, Business Communications	3
BUS 100, English for the Professional	3
BUSTEC 110, Business Procedures for Professional Success	3
CISC 300, Computer Familiarization	1
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISC 305, Introduction to the Internet	1
BUSTEC 115, Records Management	2
BUSTEC 100.1, Keyboarding Skills: Beginning	1[1]
BUSTEC 100.2, Keyboarding Skills: Intermediate	1[2]
BUSTEC 100.3, Keyboarding Skills: Advanced	1[3]
ACCT 101, Fundamentals of College Accounting	3
A minimum of 3 units from the following: BUS 106, Business Mathematics (1 - 3)	3
Total Units Required	**28**

[1, 2, 3] *Waived for students who demonstrate keying over 45 Net Words per minute on a five-minute timed test.*

Suggested Electives
CISA 306, CISA 311, CISA 321, CISA 340; WEXP 198, WEXP 298; RE 300; MKT 316; COMM 301; BUSTEC 101.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Office Administration

Business Operations and Management Technology
Career Certificate, Level C

Career Opportunities: This program prepares students for employment as Secretary, Administrative Assistant, Word Processor, and Receptionist. Many courses are available in a nine-week format.

Required Program	Units
BUSTEC 300.1, Beginning Keyboarding/Applications: Introduction	1
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
BUSTEC 300.3, Beginning Keyboarding/Applications: Advanced Document Formatting	1
BUS 310, Business Communications	3
BUS 100, English for the Professional	3
MGMT 372, Human Relations and Organizational Behavior (3) or MGMT 304, Introduction to Management Functions (3)	3
CISC 300, Computer Familiarization	1
CISA 306, Intermediate Word Processing	2
CISA 311, Intermediate Electronic Spreadsheets	1
CISA 320, Introduction to Database Management	1
CISC 320, Operating Systems	1
BUSTEC 115, Records Management	2
BUSTEC 110, Business Procedures for Professional Success	3
ACCT 101, Fundamentals of College Accounting	3
A minimum of 3 units from the following: BUS 106, Business Mathematics (1-3)	3
Total Units Required	**29**

Suggested Electives
MKT 300; CISA 321, CISA 340, CISC 305, CISC 306, CISC 321; WEXP 198, WEXP 298; MKT 316; COMM 301; BUSTEC 101.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Office Administration

Capstone Office Simulation with an Internship
Associate in Science Degree
Career Certificate, Level D

Career Opportunities: This program prepares students for employment as Administrative Assistant, Office Supervisor, Secretary, and Administrative Support Supervisor.

Required Program for the Degree	Units
BUSTEC 300.1, Beginning Keyboarding/Applications: Introduction	1
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
BUSTEC 300.3, Beginning Keyboarding/Applications: Advanced Document Formatting	1
BUS 310, Business Communications	3
BUS 100, English for the Professional	3
CISA 340, Presentation Graphics	2
BUSTEC 115, Records Management	2
ACCT 101, Fundamentals of College Accounting	3
MGMT 304, Introduction to Management Functions (3) or MGMT 372, Human Relations and Organizational Behavior (3)	3
A minimum of 3 units from the following: BUS 106, Business Mathematics (1-3)	3
A minimum of 2 units from the following: WEXP 298, Work Experience in (Subject) (1-4)	2[1]
Total Units Required	**27**

Suggested Electives
CISA 321, CISC 306, 351; MKT 316; COMM 301; BUSTEC 101.

[1] *Work experience must be in an area related to the certificate or degree.*

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to equal a 60-unit total.

Office Administration

Capstone Office Simulation with an Internship
Career Certificate, Level D

Required Program for the Certificate	Units
BUSTEC 300.1, Beginning Keyboarding/Applications: Introduction	1
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
BUSTEC 300.3, Beginning Keyboarding/Applications: Advanced Document Formatting	1
BUS 310, Business Communications	3
BUS 100, English for the Professional	3
CISA 340, Presentation Graphics	2
BUSTEC 115, Records Management	2
ACCT 101, Fundamentals of College Accounting	3
MGMT 304, Introduction to Management Functions (3) or MGMT 372, Human Relations and Organizational Behavior (3)	3
A minimum of 3 units from the following: BUS 106, Business Mathematics (1 - 3)	3
A minimum of 2 units from the following: WEXP 298, Work Experience in (Subject) (1 - 4)	2[1]
Total Units Required	**24**

Suggested Electives
CISA 321, CISC 306, CISC 351; MKT 316; COMM 301; BUSTEC 101.

[1] *Work experience must be in an area related to the certificate or degree.*

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Business, Real Estate

Associate in Science Degree
Career Certificate

The associate degree program in real estate focuses on the practical application and understanding of the concepts utilized in real estate markets, and the real estate career fields. Course work includes real estate principles, legal aspects of real estate, real estate practice, real estate finance, real estate economics, and appraisal.

Career Opportunities: Real Estate Salesperson, Real Estate Broker, Real Estate Appraiser, Real Estate Investor, and Small Business Owner.

Required Program	Units
ACCT 101, Fundamentals of College Accounting (3) or ACCT 301, Financial Accounting (4)	3-4
BUSTEC 300.2, Beginning Keyboarding/Applications: Basic Document Formatting	1
BUS 300, Introduction to Business	3
CISC 300, Computer Familiarization	1
RE 300, California Real Estate Principles	3
RE 330, Legal Aspects of Real Estate	3
RE 310, Real Estate Practice	3
RE 320, Real Estate Finance	3
RE 342, Real Estate Appraisal	4
RE 360, Real Estate Economics	3
A minimum of 3 units from the following: BUS 106, Business Mathematics (1-3) or ECON 310, Economic Statistics (3)	3
A minimum of 6 units from the following: MKT 310, Selling Professionally (3); MKT 314, Advertising (3); ECON 302, Principles of Macroeconomics (3); RE 344, Advanced Appraisals (3); RE 350, Real Property Management (3); RE 497, Internship in Real Estate (4)	6
Total Units Required	**36-37**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completing the concentration requirements with grades of "C" or better.

Business, Customer Service

Certificate of Completion, Level 1

Businesses with exceptional customer service flourish, but it is often difficult for employees to obtain the requisite skills while on the job. The Customer Service certificate program teaches skills and techniques today that can be implemented in the workplace tomorrow. In addition to the basic areas of customer service, communication, team building, and attitude, several other topics are incorporated which will enhance any employee's overall job performance, as well as improving service to customers.

Required Program	**Units**
BUS 260, Communicating With Customers	0.5
BUS 261, Exceptional Customer Service	0.5
BUS 262, Team Building in the Workplace	0.5
BUS 263, Attitude in the Workplace	0.5
A minimum of two (2) units from the following:	2
BUS 264, Ethics and Values in the Workplace (0.5)	
BUS 265, Stress Management in the Workplace (0.5)	
BUS 266, Time Management in the Workplace (0.5)	
BUS 267, Dealing With Conflict in the Workplace(0.5)	
BUS 268, Decision Making & Problem Solving in the Workplace (0.5)	
BUS 269, Organizational Change (0.5)	
Total Units Required	**4**

Certificate of Completion

The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better.

Business (BUS)

BUS 100 English for the Professional 3 Units

Formerly: BUS 50

Prerequisite: Completion of ENGWR 50 and ENGRD 110 both with grades of "C" or better, or completion of ESLW 320 and ESLR 320 both with grades of "C" or better.
Advisory: Credit for BUSTEC 100.1 or completion of BUSTEC 300.1 with a grade of "C" or better.
54 hours Lecture
This course is designed to prepare students for business communication. It presents principles of correct and effective English usage as applied in business. Included are skills and techniques of written communication, sentence structure, word usage, punctuation, spelling, business vocabulary, and business document formatting. Emphasis is placed on critical thinking and effective writing techniques through analyzing written communication and composing and organizing paragraphs into effective business documents. Computer skills are needed to format business documents and search the Internet for information. Proofreading skills are emphasized throughout the course.

BUS 106 Business Mathematics 1-3 Units

Formerly: BUS 60

Prerequisite: None
Advisory: MATH 27
54 hours Lecture
This variable unit, self-paced course with instructor lecture develops essential skills to help students handle business and consumer math issues. It builds awareness and confidence in fractions, decimals, percents, interest, merchandise markups and markdowns, interpretation of charts, problem-solving, personal finance, elementary statistics, and accounting concepts. It is recommended for every Business major. Credit is awarded at the rate of one (1) unit for each eighteen (18) hours of lecture, which is one module. Total credit cannot exceed three (3) units.

BUS 205 Entrepreneurship Quick Start 7 Units

Formerly: BUS 91

Prerequisite: None
128 hours Lecture
The Entrepreneurship Quick Start program is an intensive eight week retraining program targeting professionals who want to open their own successful businesses. The course teaches entrepreneurs how to develop a marketing plan, a strategic plan, a general business plan, an accounting system, and a logo design; how to understand state and federal procurement procedures; and how to obtain the necessary licensing to do business.

BUS 210 The Business Plan 1 Unit

Formerly: BUS 71A

Prerequisite: None
18 hours Lecture
This course offers an organized, step-by-step approach to creating and preparing a business plan for a small business. This plan will enable managers and owners to identify areas of specific risk and solve problems before commencing operations of the business.

BUS 212 Marketing for Small Businesses 1 Unit
Formerly: BUS 71B

Prerequisite: None
18 hours Lecture
This course emphasizes how a small business or non-profit organization can market its service or product to its customers. The student will learn about ways to improve the marketing mix, identify target markets, and develop a marketing plan.

BUS 214 Financing a Small Business 1 Unit
Formerly: BUS 71C

Prerequisite: None
18 hours Lecture
This course discusses the various approaches the business owner may take to obtain the necessary capital for a small business. This course will focus on determining the start-up costs, and projecting monthly and yearly costs. Financial ratios and analysis of financial statements are covered.

BUS 216 Essential Records for the Small Business 1 Unit
Formerly: BUS 71D

Prerequisite: None
18 hours Lecture
This course emphasizes the various types of records that a small business must keep and the types of business licenses that must be obtained. The focus will be on financial, employment, and tax records. A simple, easy-to-use recordkeeping system will be covered.

BUS 218 Management Skills for the Small Business 1 Unit
Formerly: BUS 71E

Prerequisite: None
18 hours Lecture
A small business owner must understand and motivate others to help the business reach its objectives. This course covers such functions as planning and organizing work flow, delegating responsibilities, understanding leadership styles, decision-making, stress and time management, and working with employee organizations.

BUS 220 Retailing and Merchandising for the Small Business 1 Unit
Formerly: BUS 71F

Prerequisite: None
18 hours Lecture
This course will emphasize retailing concepts, such as inventory control and turnover rates, selecting merchandise sources, using trade and cash discounts, pricing, markup and markdown, and shrinkage control. Students will also learn how to develop a merchandising plan, inventory control system, and assess consumer behavior and demographics.

BUS 260 Communicating With Customers .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to introduce the student to the key elements of communication and its importance in providing exceptional customer service. Topics will include verbal and nonverbal communication as well as listening skills. Emphasis will be placed on how to effectively and constructively communicate with internal and external customers. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 261 Exceptional Customer Service .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to provide the student with certain key skills and attitudes in order to effectively meet the needs of customers. The student will be introduced to the concepts of internal and external customers, customer satisfaction, and customer retention. Topics will also include communicating with customers, developing a positive attitude, handling complaints, and sales skills. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 262 Team Building in the Workplace .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to provide the student with an understanding of team building and the role teams play in providing exceptional customer service. Students will learn how effective teams work, common problems teams encounter, and how to resolve them. They will learn to recognize and deal with various coworker personalities and team player styles. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 263 Attitude in the Workplace .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to introduce the student to the subject of attitude and the importance of a positive attitude in providing exceptional customer service. Certain key skills will help participants maintain a positive attitude in the workplace and at home. The student will be introduced to the concepts of how attitudes are communicated and how to adjust one's own attitude. Topics will also include the primary causes of a bad attitude and specific techniques to improve the attitudes of others. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 264 Ethics and Values in the Workplace .5 Unit

Prerequisite: None
9 hours Lecture
This course will acquaint the student with the importance of ethics and values in delivering exceptional customer service. Students will learn how to evaluate ethical behavior, how to determine what influences our values, and how values influence actions. Emphasis will be placed on developing a personal ethical philosophy and helping others do the right thing. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 265 Stress Management in the Workplace .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to acquaint the student with the elements of stress management and its importance in providing exceptional customer service. Topics will include the recognition of stress, causes of stress, and the benefits of managing stress. Emphasis will be placed on a multitude of ways to handle stress in order to have a more productive professional and personal life. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 266 Time Management in the Workplace .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to introduce the student to the principles of time management and the importance of managing time efficiently in providing exceptional customer service. Specific tools that assist in making the maximum use of one's time will be discussed. Emphasis will be placed on how to prioritize, identifying time wasters, delegation, and goal setting. Basic concepts of managing space will also be covered. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 267 Dealing With Conflict in the Workplace .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to introduce the student to the subject of conflict management and the importance of managing conflict in providing exceptional customer service. Topics will include the meaning of conflict, the causes of conflict between individuals and groups within an organization, and strategies for resolving interpersonal conflict. Emphasis will be placed on how to deal with difficult people, and how to bring out the best in others. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 268 Decision Making & Problem Solving in the Workplace .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to introduce the student to the role and importance of effective decision making and problem solving in providing exceptional customer service. Emphasis will be placed on recognized techniques for solving problems, common traps to avoid when making decisions, and tools for generating creative solutions. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 269 Organizational Change .5 Unit

Prerequisite: None
9 hours Lecture
This course is designed to provide the student with an understanding of organizational change and the role it plays in providing exceptional customer service. Topics will include understanding organizational change, theoretical models of change, stages of change, and how to survive and thrive when an organization changes. The goal is to provide practical, hands-on skills to non-management level personnel.

BUS 294 Topics in Business .5-4 Units

Formerly: BUS 80

Prerequisite: None
72 hours Lecture
Short course of varying duration of 9-54 hours on specialized topics of business. Content will differ each time course is offered. Objective is to focus on issues of significance at the time of offering. This course may be taken four times for credit providing there is no duplication of topics.

BUS 300 Introduction to Business 3 Units

Formerly: BUS 20

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ESLW 310, or BUS 310.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
For anyone considering a career in business, or a business venture, this course provides an overview of the business operation and the skills required for success. It covers the operations of business, business organization and management, finance, marketing, labor-management relations and government regulations, accounting, computers, e-commerce, and management information systems.

BUS 310 Business Communications 3 Units

Formerly: BUS 8

Prerequisite: BUS 100 with a grade of "C" or better, and completion of one unit of BUSTEC 100 or BUSTEC 300 at 28+ net words per minute, or equivalent.
General Education: AA/AS Area D1 and writing competency
Acceptable for credit: CSU
54 hours Lecture
This course is designed to emphasize the use of effective communication within the global business environment. It covers the psychology, principles, and methods used in the process of applying standard English to communicate. The problem solving approach is used to plan and compose effective business documents in which style, appearance, tone, vocabulary, grammar, punctuation, and reader appeal are stressed for effective oral and written communication. Organizational communication is emphasized. A 1000-word keyed research paper will be required.

BUS 320 Concepts in Personal Finance 3 Units (same as FCS 304)

Formerly: BUS 14

Prerequisite: None
Advisory: Eligibility for ENGWR 100, or ESLW 310, or BUS 310.
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course is designed to assist individuals to analyze their financial affairs. Elements and conceptual basis of financial planning analysis, and decision making in areas of budgeting, taxes, borrowing, money management, insurance, investments, and retirement will be examined with an emphasis on principles to develop students' economic decision making. This course meets the "Living Skills" graduation requirement.

BUS 330 Managing Diversity in the Workplace 3 Units

Formerly: BUS 15

Prerequisite: None
General Education: AA/AS Area F
Acceptable for credit: CSU
54 hours Lecture
The course examines the leadership skills and abilities needed to manage a multicultural workforce. A primary focus is placed upon the workplace impact of various historical, social, and cultural experiences/perspectives related to gender, age, ethnicity, and disability. Workforce issues related to the diversity of the American consumer and global consumer impact on the United States are analyzed.

BUS 340 Business Law 3 Units

Formerly: BUS 18A

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
This course covers law and its relationship to the environment of business. Included is an introduction to the American legal system as an instrument of economic, social, and political control. Other areas studied include: sources and processes of law, contracts and sales, agency, business organizations, ethics, and the regulatory process.

BUS 343 Computers, Data Processing and the Law 3 Units

Formerly: BUS 17

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to legal ramifications of computers and data processing as it relates to the study of these areas specifically and business generally.

BUS 345 Law and Society 3 Units

Formerly: BUS 16

Prerequisite: None
Acceptable for credit: UC (BUS 345 or PHIL 368 or 482, maximum one course)/CSU
54 hours Lecture
This course benefits every student in every major by making them aware of their rights and obligations under the law. They will be introduced to the American common law system, with emphasis on the practical aspects, as well as theory behind the law, and on the law as a reflection of society. Areas studied include the U.S. Constitution, the Court and legal systems, law of Crimes, Torts, Contracts, Landlord-Tenant Relationships, Employment and Family Law. This course is not to be taken in place of BUS 340, Business Law, where required.

BUS 350 Small Business Management/Entrepreneurship 3 Units

Formerly: BUS 200, BUS 70

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This class cover the various elements in starting and operating a small business. Students will learn to develop a business plan, find financial resources, meet legal requirements, develop management techniques, understand marketing concepts, and other topics of interest to the small business entrepreneur.

BUS 498 Work Experience in Business 1-4 Units

Formerly: BUS 98

Prerequisite: None
Corequisite: Students must have either a job or an established internship.
General Education: AA/AS Area E
Acceptable for credit: CSU
18 hours Lecture; 300 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area of Business course content. It will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V papers (the student's Application, Learning Objectives, Timesheet, and Evaluations) which document the students' progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies as well as local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be repeated when there is new or expanding learning on the job for 1-4 units, repeatable for up to 16 units. In addition the student and the Work Experience instructor may tailor the course to meet the student's specific professional needs, as related to the Business major, by identifying 1-5 workshops, trainings, or conferences that the student may attend as part of the curriculum of the Work Experience class in BUS 498.

Business Technology (BUSTEC)

BUSTEC 100 Keyboarding Skills 1-3 Units

Formerly: BUS 55

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 50.
36 hours Lecture; 54 hours Laboratory
This computer skill building course is open to students who desire to learn the keyboard, and build speed and accuracy. Individualized skill improvement plans are based on a computerized assessment of keyboarding speed and accuracy. This course is a Credit/No Credit course. Students will earn a unit of credit for each module successfully completed.
NOTE: For the 2006-07 academic year, BUSTEC 100 will be offered only in modules as BUSTEC 100.1, BUSTEC 100.2, and BUSTEC 100.3.

BUSTEC 100.1 Keyboarding Skills: Beginning 1 Unit

Advisory: Completion of ENGRD 110 and ENGWR 50 with grades of "C" or better.
18 hours Lecture; 18 hours Laboratory
This introductory keyboarding course is designed for students who desire to learn the computer keyboard by touch. Students who have learned to touch-type should enroll in BUSTEC 100.2. This course is not open to students who have already received credit for one unit of BUSTEC 100. This is a Credit/No Credit course.

BUSTEC 100.2 Keyboarding Skills: Intermediate 1 Unit

Advisory: Completion of ENGRD 110 and ENGWR 50 with grades of "C" or better. Credit for BUSTEC 100.1 or equivalent.
18 hours Lecture; 18 hours Laboratory
This intermediate course is designed for students who have the ability to touch-type but desire to increase their keyboarding speed and accuracy. An individualized skill improvement plan will be developed during the first week of the course. This plan is based on a computerized assessment of current keyboarding speed, accuracy, and technique. Students must meet or exceed their prescribed goal in order to receive credit. This course is not open to students who have already received credit for two units of BUSTEC 100. This is a Credit/No Credit course.

BUSTEC 100.3 Keyboarding Skills: Advanced 1 Unit

Prerequisite: Credit for BUSTEC 100.2.
Advisory: Completion of ENGRD 110 and ENGWR 50 with grades of "C" or better.
18 hours Lecture; 18 hours Laboratory
This advanced course is open to students who have successfully completed BUSTEC 100.2. An individualized skill improvement plan will be developed during the first week of the course. This plan is based on a computerized assessment of current keyboarding speed, accuracy, and technique. Students must meet or exceed their prescribed goal in order to receive credit. This course is not open to students who have already received credit for three units of BUSTEC 100. This is a Credit/No Credit course.

BUSTEC 101 Computer Keyboarding: 10-Key 1 Unit

Prerequisite: None
18 hours Lecture; 18 hours Laboratory
This course introduces the numeric keypad and develops the ability to key information into a computer with speed and accuracy. Students will use the numeric keypad to operate Windows Calculator. Additionally, students will key numeric data into electronic spreadsheets, invoices, and checks in simulated exercises. This course is graded Credit/No Credit.

BUSTEC 110 Business Procedures for Professional Success 3 Units

Formerly: BUS 58

Prerequisite: None
Advisory: Completion of BUS 100, BUSTEC 115, BUSTEC 300.2, CISA 305, CISA 310, and CISA 320 all with grades of "C" or better.
54 hours Lecture
This course prepares students to perform various information processing procedures and problem solving tasks required to support both today's office systems and those of the future. Students learn critical thinking, problem solving, teamwork, supervision skills, office procedures, and information processing technologies to manage their work, as well as necessary attributes of an office professional. These skills will provide the background for advancement to supervision and management positions. Primary emphasis is on processing documents using introductory skills in word processing, spreadsheets, presentation graphics, database and e-mail. Also included are managing information storage and retrieval, and coordinating office communications, to improve the efficiency of office functions.

BUSTEC 115 Records Management 2 Units

Formerly: BUS 51

Prerequisite: None
Advisory: Credit for BUSTEC 100.1 or completion of BUSTEC 300.1 with a grade of "C" or better.
36 hours Lecture
This course offers an introduction to the field of records and information management. It introduces students to filing rules compatible with the Association of Records Managers and Administrators (ARMA) guidelines. Principles and practices of effective records management for filing and maintenance of paper, image, and electronic records are included. Requisition/charge-out and transfer procedures along with legal and ethical issues in the records management field are covered.

BUSTEC 300 Beginning Keyboarding/ Applications 1-3 Units

Formerly: BUS 1

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 50.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course builds speed and accuracy using the touch method. Module 1 (1 unit) introduces or reviews the keyboard by touch. Module 2 (1 unit) and Module 3 (1 unit) cover the preparation of business documents using word processing. Grammar, spelling, and punctuation are reinforced throughout the program. Students will earn a unit of credit for each module successfully completed.
NOTE: For the 2006-07 academic year, BUSTEC 300 will be offered only in modules as BUSTEC 300.1, BUSTEC 300.2, and BUSTEC 300.3.

BUSTEC 300.1 Beginning Keyboarding/ Applications: Introduction 1 Unit

Prerequisite: None
Advisory: Completion of ENGWR 50 and ENGRD 110 both with grades of "C" or better, or completion of ESLW 320 and ESLR 320 both with grades of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This introductory keyboarding course emphasizes operating alphabetic, numeric, and symbol keys by touch. It includes computer-keyboarding techniques, speed-and-accuracy development, and essential computer-keyboarding information. BUSTEC 300.1 is a prerequisite to BUSTEC 300.2. This course is not open to students who have already received credit for one unit of BUSTEC 300.

BUSTEC 300.2 Beginning Keyboarding/ Applications: Basic Document Formatting — 1 Unit

Prerequisite: Completion of BUSTEC 300.1 with a grade of "C" or better, and the ability to touch-type at least 28 words per minute for two minutes with a maximum of five errors.
Advisory: Completion of ENGWR 50 and ENGRD 110 both with grades of "C" or better, or completion of ESLW 320 and ESLR 320 both with grades of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course provides basic formatting and skill development for employment or personal use. The course builds upon skills learned in BUSTEC 300.1 and develops additional computer keyboarding skills in the creation of word processing documents. Formatting applications include: business correspondence, reports, and tables. Basic document formatting, grammar, spelling, punctuation, and proofreading are reinforced throughout. Students will use basic features of an office-level word processing program. This course is not open to students who have already received credit for two units of BUSTEC 300. This course is a prerequisite to BUSTEC 300.3.

BUSTEC 300.3 Beginning Keyboarding/ Applications: Advanced Document Formatting — 1 Unit

Prerequisite: Completion of BUSTEC 300.2 with a grade of "C" or better, and the ability to touch-type at least 36 words per minute for three minutes with a maximum of four errors.
Advisory: Completion of ENGWR 50 and ENGRD 110 both with grades of "C" or better, or completion of ESLW 320 and ESLR 320 both with grades of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course provides advanced skill development of business documents for employment or personal use. The course builds on skills learned in BUSTEC 300.2 and teaches students to apply advanced formats for business correspondence - memorandums, letters, reports, and employment documents. The course includes enhancing proofreading proficiency, reinforcing communication skills, increasing speed and accuracy, and using features of a current office-level word processing program to create business documents. This course is not open to students who have already received credit for three units of BUSTEC 300.

BUSTEC 350 Virtual Office Careers and Technologies — 3 Units

Prerequisite: BUS 100 with a grade of "C" or better.
54 hours Lecture
This course explores careers in the virtual office and identifies techniques and technologies needed by virtual office workers. Specific topics include types of virtual offices, technologies and skills needed in a virtual office, ways to establish and manage a virtual office, effective communication, and job opportunities. This course also examines issues for career preparation in a virtual office.

Management (MGMT)

MGMT 304 Introduction to Management Functions — 3 Units

Formerly: MGMT 19

Prerequisite: None
Advisory: ENGWR 100, ESLW 340, or BUS 100 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This is a basic course in management introducing a variety of modern management concepts. This course includes the basic management functions of planning, organization, staffing, leadership, and control. In addition, such concepts as team development, communication, business ethics, and global management perspectives will be discussed.

MGMT 306 Introduction to Public Administration — 3 Units

Formerly: MGMT 20

Prerequisite: None
Advisory: ENGWR 100, ESLW 340, or BUS 100 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This is a study of the fundamental principles of administration and their application to governmental and public sector operations. It acquaints students with the politics of administration, administrative responsibility, the management activities of planning, organizing, directing and controlling, and program implementation. Administration at the state and local government level, as well as in other public sector operations such as hospitals, schools and the military, is included.

MGMT 308 Personnel and Human Resources Management — 3 Units

Formerly: MGMT 170, MGMT 82

Prerequisite: None
Advisory: ENGWR 100, ESLW 340, or BUS 100 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to the complex study and analysis of such areas as civil rights, labor law, the Human Resources organization, and various management theories currently found in both public and private sector organizations.

MGMT 309 Introduction to Supervision — 3 Units

Formerly: MGMT 81

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This introductory course in supervision is designed to meet the needs of students interested in learning more about the role of a supervisor and those making the transition from employee to supervisor. Emphasis is on employee motivation, morale, working conditions, communication with employee groups, conflict

management, recruiting and interviewing potential employees, training, group dynamics, and health and safety issues. Case studies from business are used to prepare the student for a supervisory position.

MGMT 372 Human Relations and Organizational Behavior 3 Units

Formerly: MGMT 23

Prerequisite: None
Advisory: BUS 100, ENGWR 100 or ESLW 340 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course emphasizes the psychology of human relations management. It covers human interaction principles that build confidence, competence, and positive attitudes in work organizations. Topics include the basis for human behavior, perception, personality, communication, stress, time and career management, motivation, performance improvement, group behavior, ethics, and social responsibility.

Marketing (MKT)

MKT 300 Principles of Marketing 3 Units

Formerly: MKT 20

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides a general overview of marketing principles. The course covers the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational goals. Elements of the marketing environment such as government regulation, environmental protection, competition, and consumer behavior will be analyzed.

MKT 310 Selling Professionally 3 Units

Formerly: BUS 120

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will examine and present the qualifications necessary to achieve success in professional selling. Emphasis will be placed on the development of a business personality and its application to prospecting, structuring the sales presentation, handling objections, closing, servicing, and customer relationship management. Application of techniques in product and service situations and integration of technology as a sales tool will be explored. Different types of selling experiences such as direct, industrial, wholesale, and retail are covered. Students will participate in role-playing exercises and deliver a sales presentation. This course is recommended for all students entering any career in business.

MKT 312 Retailing 3 Units

Formerly: MKT 24

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Retailing is a business that provides goods and services to customers for their personal use. This course will study modern retail operations with emphasis on consumer behavior, store location, sourcing of goods, pricing, organization, promotion, merchandising, management, and other pertinent factors of retail operations.

MKT 314 Advertising 3 Units

Formerly: BUS 130, BUS 64A

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course examines advertising as a marketing communications tool. Emphasis will be placed on consumer behavior, creative methods, media selection, measurements of effectiveness, and coordination with other aspects of the marketing program.

MKT 316 Public Relations 3 Units

Formerly: MGMT 380, MGMT 85

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course covers the role of public relations in business and marketing. It introduces students to the roles and responsibilities of the public relations professional and the skills needed for success. Students will examine the functions of public relations, including crisis management, issue management, and building and managing the image of an organization and its products and services.

MKT 330 Internet Marketing 3 Units

Advisory: CISC 305 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course introduces students to the current state of the art in e-business, with an emphasis on the theory and practice of marketing in an electronic environment. Students will learn how to use the personalization and interactivity of the Internet to build strong customer relationships. These concepts will be applied to traditional brick and mortar as well as exclusively online businesses.

Real Estate (RE)

RE 300 California Real Estate Principles 3 Units

Formerly: RE 19

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This fundamental real estate course covers the basic laws and principles of California real estate, and provides an understanding, background, and the terminology necessary for advanced study in specialized real estate courses. This course is required by the California Department of Real Estate prior to taking the Real Estate Salesperson's examination.

RE 310 Real Estate Practice 3 Units

Formerly: RE 82

Prerequisite: None
Advisory: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers operations in real estate: listing, prospecting, advertising, financing, sales techniques, escrow, and ethics. The course applies toward educational requirements for broker's examination.

RE 320 Real Estate Finance 3 Units

Formerly: RE 83

Prerequisite: None
Advisory: Real Estate 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers real estate financing: lending policies, and problems; financing transactions in residential, apartment, commercial, and special purpose properties; and methods of financing properties. This course applies towards educational requirements for broker's examination.

RE 330 Legal Aspects of Real Estate 3 Units

Formerly: RE 81

Prerequisite: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers California real estate law, including management, agency contracts, and application to real estate transfer, conveyancing, probate proceedings, trust deeds, and foreclosure. Legislation governing real estate transactions is also covered. It applies toward educational requirements for broker's examination.

RE 342 Real Estate Appraisal 4 Units

Formerly: RE 84

Prerequisite: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
75 hours Lecture
This course provides entry-level education in the real estate appraisal field. Concentrating on the appraisal of single-family residences (real property), the course will cover Basic Appraisal Principles (30 Hours) and Basic Appraisal Procedures (30 Hours) pursuant to the AQB's Real Property Appraiser Qualification Criteria (effective January 1, 2008). The course is designed to meet the Office of Real Estate Appraisers' (OREA) requirements for Basic Education (60 Hours) and the National USPAP 15-Hour course; total of 75 Hours (Appraiser Trainee Core Curriculum). Course also applies toward DRE's educational requirements (3 semester units).

RE 344 Advanced Appraisals 3 Units

Formerly: RE 94

Prerequisite: RE 342 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers appraisal of income property. Emphasis is on market and income analysis, capitalization, techniques, rate derivation, compound interest tables, cost and sales comparison and appraisal of specific income properties. This course applies toward educational requirements for broker's examination.

RE 350 Real Property Management 3 Units

Formerly: RE 95

Prerequisite: None
Advisory: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers operation and management of real property marketing procedures, leases, maintenance, insurance, accounting, records, public and human relations, employer responsibilities, and selection of personnel and agreements. This course applies toward educational requirements for the broker's examination.

RE 360 Real Estate Economics 3 Units

Formerly: RE 85

Prerequisite: RE 310 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers the nature and classification of land economics; development of property; construction and subdivision, economic values and real estate evaluation. Real estate cycles and business fluctuations, residential market trends, real property and special purpose property trends are also covered. This course applies toward educational requirements for broker's examination.

RE 497 Internship in Real Estate 4 Units

Prerequisite: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 162 hours Laboratory
This course provides students with a supervised, structured, hands-on experience in real estate and with the skills necessary to assist them in obtaining a job in the real estate industry. Course content will include understanding the application of education to the workforce; the responsibilities of an internship; completion of Title V papers (the student's Application, Learning Objectives, Time sheet, and Evaluations) which document the students' progress and hours completed; and developing workplace skills identified by local employers. In addition to 18 hours of lecture, the student is required to complete an internship of 162 hours.

Chemistry CHEM

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

Chemists work as pharmaceutical or environmental chemists, educators, medical researchers, quality assurance and general scientists, and pharmacists. The preparation received in chemistry is excellent background for careers in medicine, dentistry, engineering, the biological sciences, earth sciences, and science education.

This major is designed to meet some of the common lower-division requirements for a major in Chemistry.

Required Program	Units
CHEM 400, General Chemistry	5
CHEM 401, General Chemistry	5
CHEM 420, Organic Chemistry, AND	5
CHEM 421, Organic Chemistry	5
OR	
CHEM 425, Organic Chemistry with Biological Emphasis, AND	4
CHEM 426, Organic Chemistry with Biological Emphasis	4
Total Units Required	**18-20**

Note: Students planning to transfer to four-year institutions are advised to meet with a counselor for general education requirements.

Associate in Science Degree (A.S.)

The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

CELEBRATING 90 YEARS

Chemistry (CHEM)

NOTE: The University of California has a credit restriction on certain combinations of chemistry courses. See a counselor for detailed information on the current UC Articulation Agreement.

CHEM 110 Preparatory Chemistry 2 Units

Formerly: CHEM 41

Prerequisite: None
36 hours Lecture
This is a credit/no-credit lecture course which covers the most fundamental concepts of chemistry. This course is intended primarily to prepare students for UCD's Chemistry 2A (General Chemistry).

CHEM 300 Beginning Chemistry 4 Units

Formerly: CHEM 51

Prerequisite: MATH 100 or 104 with a grade of "C" or better.
Advisory: MATH 120; concurrent enrollment in CHEM 317.
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after CHEM 400; CHEM 300 or 305 or 330, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
This is a lecture and laboratory course that covers the fundamental concepts of chemistry. This course assumes no previous knowledge of chemistry and teaches both chemical problem solving and laboratory skills. This course is intended primarily to prepare students for CHEM 400, but also fulfills the physical science area of the general education requirement for transfer students.

CHEM 305 Introduction to Chemistry 5 Units

Formerly: CHEM 2A

Prerequisite: MATH 104 with a grade of "C" or better; MATH 100, Elementary Algebra, or equivalent with a grade of "C" or better.
Advisory: ENGWR 100; Completion of ENGWR 100 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after CHEM 400; CHEM 300 or 305 or 330, maximum one course; CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
72 hours Lecture; 54 hours Laboratory
This course presents the fundamental principles of chemistry including types of matter, physical and chemical processes, chemical bonds, atomic and molecular structure, nuclear chemistry, stoichiometry, states of matter, intermolecular forces, solutions, types of chemical reactions, acids and bases, equilibrium, and a brief introduction to organic chemistry. It is primarily designed for majors in the allied health fields (nursing, dental hygiene, physical therapy, etc.), natural resources, environmental technology, and physical education. The course also satisfies general education requirements.

CHEM 306 Introduction to Chemistry 5 Units

Formerly: CHEM 2B

Prerequisite: CHEM 305 with a grade of "C" or better.
Advisory: Completion of ENGWR 100 with a grade of C or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
72 hours Lecture; 54 hours Laboratory
CHEM 306 is a continuation of CHEM 305. It covers organic chemistry and biochemistry, particularly as applied to the health sciences. It is designed to introduce the organic functional groups and reaction mechanisms, and how they are applied to biological systems. This course is primarily designed for majors in the allied health fields (nursing, dental hygiene, physical therapy, etc.), natural resources, environmental technology, and physical education.

CHEM 317 Strategies for Problem Solving in Chemistry 1 Unit

Formerly: CHEM 45

Prerequisite: None
Corequisite: CHEM 300, 305, 306, 420, 421, 425, or 426.
Acceptable for credit: CSU
18 hours Lecture
This course will focus on developing analytical reasoning strategies, critical thinking skills and problem-solving abilities for both quantitative and qualitative problems in chemistry. The course is designed to support students in beginning chemistry (CHEM 300), introductory chemistry applied to the health sciences (CHEM 305), organic and biochemistry applied to the health sciences (CHEM 306), organic chemistry with a biological emphasis (CHEM 425 and CHEM 426), and organic chemistry for chemistry majors (CHEM 420 and 421). Strategies and content will be specific to the area of chemistry. This course may be taken up to three times for credit providing there is no duplication of content.

CHEM 320 Environmental Chemistry 4 Units

Formerly: CHEM 7

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course explores the interrelationship of human beings and their living and nonliving environments with regards to the chemical substances that are encountered in everyday life. The role of chemistry in both creating the environmental problems as well as providing solutions will be examined. At the conclusion of the course, the student will be able to use everyday tools in understanding and dealing with environmental problems and become a more critical thinking consumer of products affecting the environment. The laboratory is designed to familiarize students with the methods of science while investigating the presence and interaction of chemicals in the environment.

CHEM 330 Chemistry of the World 3 Units

Formerly: CHEM 10

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after CHEM 400; CHEM 300 or 305 or 330, maximum one course)/CSU
54 hours Lecture
This is a lecture course covering the basic principles of chemistry with an emphasis on the social, industrial and biological aspects of chemistry. It is designed for students desiring a general knowledge of chemistry and the importance of science in everyday life. An optional laboratory course, CHEM 331, may accompany this lecture course.

CHEM 331 Laboratory for Chemistry of the World 1 Unit

Formerly: CHEM 13

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Laboratory
This is the optional laboratory to accompany CHEM 330. The laboratory gives students practical experience working with chemicals, glassware, and instruments. It is designed for students desiring a general knowledge of chemistry and the importance of science in every day life. It will be especially useful as a continuing education course for elementary and middle school teachers.

CHEM 336 Art and Chemistry 4 Units

Formerly: CHEM 14

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an exploration of the chemistry of art and art media. Students will investigate through a variety of lecture, laboratory, and studio activities the scientific basis of paints, dyes, photography, fresco, metalworking, fabric, polymers, glasswork, art preservation/restoration, art forgery, and chemical hazards in art. Chemical concepts such as the atomic nature of matter, molecules, elements, compounds, chemical bonding and interactions, acids and bases, solubility, spectroscopy, oxidation and reduction, and carbon chemistry will be discussed as they apply to the chemical nature of art. The weekly course format is three hours of lecture discussion and three hours of laboratory work as well as occasional field trips.

CHEM 400 General Chemistry 5 Units

Formerly: CHEM 1A

Prerequisite: Completion of one year of any high school chemistry course, CHEM 300, or CHEM 305 with a grade of "C" or better. Completion of high school intermediate algebra or MATH 120 or its equivalent, with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
54 hours Lecture; 72 hours Laboratory; 18 hours Discussion
CHEM 400 covers the fundamental principles and concepts of chemistry including reactions, stoichiometry, thermochemistry, atomic and molecular structure and bonding, gases, liquids, solids, and solutions. One hour per week will be devoted to discussion/problem session. Laboratory experiments are mostly quantitative, requiring good technique and critical thinking. CHEM 400 is for students majoring in biology, chemistry, pre-dentistry, pre-medicine, pre-pharmacy, and engineering.

CHEM 401 General Chemistry 5 Units

Formerly: CHEM 1B

Prerequisite: CHEM 400 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
54 hours Lecture; 72 hours Laboratory; 18 hours Discussion
CHEM 401 is a continuation of CHEM 400. This course includes topics in kinetics, thermodynamics, gas-phase equilibrium, ionic equilibrium, electrochemistry, chemistry of coordination compounds and nuclear chemistry. Critical thinking and writing skills will be practiced in this course. One hour per week will be devoted to a discussion/problem solving session. CHEM 401 is for students in biology, chemistry, pre-dentistry, pre-medicine, pre-pharmacy, and engineering. The laboratory includes both quantitative and qualitative experiments and some qualitative analysis. Written laboratory reports are required. It is recommended that CHEM 400 and 401 be taken during consecutive semesters.

CHEM 410 Quantitative Analysis 5 Units

Formerly: CHEM 5

Prerequisite: CHEM 401 with a grade of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This is a quantitative analysis course which emphasizes the theory and practice of gravimetric, volumetric, potentiometric, spectrophotometric and chromatographic methods of analysis. Students also calibrate laboratory glassware, keep detailed scientific notebooks, and learn techniques for the handling of data. This is a course for students planning careers in chemistry, biochemistry, chemical engineering, pre-pharmacy, molecular biology, and microbiology.

CHEM 420 Organic Chemistry 5 Units

Formerly: CHEM 12A

Prerequisite: CHEM 401 with a grade of "C" or better. (Concurrent enrollment in CHEM 400 or 401 is not recommended.)
Advisory: CHEM 317
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 108 hours Laboratory
This is a lecture-laboratory course designed to introduce students to the study of basic concepts of organic chemistry. Lecture topics include chemistry of alkanes/cycloalkanes, alkenes, alkyl halides, alcohols and ether with emphasis on stereochemistry, reaction mechanisms and spectroscopy. Laboratory work includes basic techniques of separation and identification. Computer-aided molecular modeling will be introduced. Students will be introduced to a variety of modern instrumentation (GC, HPLC, FT-IR, GC-MS) in the laboratory.

CHEM 421 Organic Chemistry 5 Units

Formerly: CHEM 12B

Prerequisite: CHEM 420 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 108 hours Laboratory
This course is lecture-laboratory course that is a continuation of CHEM 420. Lecture topics include the chemistry of ethers, epoxides, conjugated dienes, aromatic compounds, carbonyl compounds, enolate condensation, amines, phenols, polymerization reactions, and selected biologically important compounds. The course also includes continued application of spectroscopic methods (IR, NMR, UV-vis and MS) applied to organic chemistry. Laboratory emphasis is on the preparation, isolation, quantitation, purification, identification and mechanism elucidation using both traditional and instrumental techniques. Students will continue to expand their ability to operate and utilize a variety of modern chemical instrumentation - Gas Chromatography, High Performance Liquid Chromatography, Fourier Transform - InfraRed Spectroscopy, and Gas Chromatography-Mass Spectroscopy.

CHEM 425 Organic Chemistry with Biological Emphasis 4 Units

Formerly: CHEM 9A

Prerequisite: Completion of CHEM 401 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 54 hours Laboratory
The CHEM 425, 426 series is designed to fulfill the requirements of students planning professional school studies in the health and biological sciences. It will also satisfy the needs of students majoring in the life sciences and related areas. This course is intended for students not majoring in chemistry and not planning to take additional course in organic chemistry. Lecture topics include the preparation, properties, and reactions of alkanes, alkenes, alkynes, alkyl halides, alcohols, and ethers with emphasis on applications in the biological sciences. Also included is the study of stereoisomerism, mass spectrometry, and spectroscopy (UV/VIS and IR). Laboratory work covers standard laboratory practices including extraction, crystallization, distillation, chromatography (gas, thin layer, and column), polarimetery, organic synthesis, reaction analysis, and spectroscopy (IR) with emphasis on biological applications.

CHEM 426 Organic Chemistry with Biological Emphasis 4 Units

Formerly: CHEM 9B

Prerequisite: Completion of CHEM 425 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 54 hours Laboratory
This course, a continuation of CHEM 425, focuses on the preparation, properties, reactions, and spectroscopy (IR, NMR, and UV) of organic compounds, including benzene and benzene derivatives, aldehydes, ketones, §-dicarbonyl compounds, carboxylic acids, and amines. Applications in the biological sciences are emphasized. An introduction to the chemistry of biological macromolecule (lipids, carbohydrates, proteins, and nucleic acids) is also presented. Laboratory work includes qualitative analysis, multi-step organic synthesis, instrumentation (IR and GC), protein electrophoresis, and investigations in photochemistry, dyes, and biological macromolecules.

CHEM 484 Advanced General Chemistry - Honors 1 Unit

Formerly: CHEM 4H

Prerequisite: CHEM 400 with a grade of "C" or better. Eligibility for admission to the Honors Program.
Acceptable for credit: UC/CSU
9 hours Lecture; 27 hours Laboratory
Honors Advanced General Chemistry provides advanced studies of chemical concepts introduced in CHEM 400 and related concepts, including advanced laboratory work. This honors course uses an intensive methodology designed to challenge motivated students.

CHEM 494 Topics in Chemistry .5-4 Units

Formerly: CHEM 22

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science majors to learn about recent developments in chemistry. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.

CHEM 496 Teaching Assistant in Chemistry 1-4 Units

Formerly: CHEM 46

Prerequisite: A grade of "B" or better in the course for which the student is going to be a teacher aide; consent of instructor and approval of division dean.
Acceptable for credit: CSU
27 hours Lecture; 81 hours Laboratory
This course is for student who want to develop an in-depth understanding of the fundamentals of chemistry and learn to work with individual and small groups of students.

Communication COMM

Associate in Arts Degree

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 18a

916-558-2551

Recommended High School Preparation
Standard college preparatory program.

Program Information
The Communication Department offers a variety of courses designed to meet students' needs for graduation, transfer, and personal and professional development. Students earning the Associate of Arts degree in Communication will be able to understand and apply human communication concepts relating to presentational speaking, critical thinking, group and interpersonal relationship development, and professional growth.

Transfer
Courses offered by the Communication Department meet a wide range of lower division transfer requirements for CSU and UC colleges. The department offers many courses designed to prepare students for transfer to a variety of disciplines including Business, Communication Studies, Criminal Justice, Education, Liberal Arts, Pre-Law, Mass Media, Management, Psychology, Sociology, and Social Work.

Career Opportunities
The number one skill employers seek is effective communication. Courses in communication enhance understanding and skills for transfer preparation, professional development, and personal growth. The degree and program enhances opportunities for employment and promotion in fields including education, law enforcement, law, health, management, organizational development, psychology, public service, sales, training, entertainment, and social services.

Forensics
The Los Rios Forensics team helps students improve their critical thinking and oral presentation skills. The Forensics team provides a high level of intercollegiate competition through the Forensics Laboratory course. Students who participate in this award-winning team compete in debate, public speaking, oral interpretation of literature/drama, impromptu speaking, and reader's theater. This program enhances the college experience and polishes the skills that employers actively request.

Communication
Associate in Arts Degree

Required Program	**Units**
COMM 301, Introduction to Public Speaking	3
COMM 311, Argumentation and Debate	3
COMM 321, Interpersonal Communication	3
COMM 331, Group Discussion	3
A minimum of 6 units from the following:	6
COMM 315, Persuasion (3)	
COMM 374, Forensics Laboratory (1 - 3)	
COMM 325, Intercultural Communication (3)	
COMM 351, Mass Media and Society (Same as ENGWR 384 or JOUR 310) (3)	
Total Units Required	**18**

Suggested Electives
COMM 305, COMM 345, COMM 335, COMM 316, COMM 361.

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

CELEBRATING 90 YEARS

Communication (COMM)

COMM 270 Communication Laboratory .5-3 Units

Formerly: COMM 45

Prerequisite: None
27-162 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction in basic oral communication skills. Individualized instructional modules are designed to help the student acquire or improve communication skills in specific areas. Course offerings vary, depending upon the students' needs and abilities. A partial list includes: Outlining a speech, Introductions, and Supporting Material. The course is graded Credit/No Credit. Students earn 0.5 units for every 27 hours completed. They may earn 0.5-3 units per semester and repeat this class until reaching the maximum of 6 units. Students may enroll until the end of the 12th week of instruction.

COMM 301 Introduction to Public Speaking 3 Units

Formerly: COMM 1

Prerequisite: Eligibility for ENGRW 300.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course prepares students to speak in a variety of rhetorical situations: as college students, as employees, as opinion leaders in the community. The course is designed to assist students in developing ethical research methodology, analytical thinking skills, organization and outlining skills, effective delivery, and appropriate speech presentation skills. Emphasis is on researching, preparing, organizing, and presenting a variety of speeches for different audiences.

COMM 302 Persuasive Speech 3 Units

Formerly: COMM 2

Prerequisite: Eligibility for ENGWR 300; completion of COMM 301 with a grade of "C" or better.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to give students instruction and practice in designing and orally delivering persuasive messages. Emphasis is placed on use of proofs, language, logical thinking, and delivery. Students will prepare, present, and evaluate multiple types of persuasive speeches.

COMM 305 Oral Interpretation 3 Units

Formerly: COMM 5

Prerequisite: Completion of ENGWR 100 or ESLW 340 with a grade of "C or better, AND completion of ENGRD 310 or ESLR 340 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the field of performance studies through the oral interpretation of various literary forms, including Western and Non-Western forms of literature. Theoretical issues and historical developments are examined and applied to the current performance trends in solo, duo and interpreters' theatre. The focus is on audience analysis, selection and thematic analysis of literature, discussion and application of vocal and physiological delivery techniques, program performance, and post performance evaluation.

COMM 311 Argumentation and Debate 3 Units

Formerly: COMM 3

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the role of argument in public discourse. Students develop presentational skills necessary for public advocacy. Assignments include researching, preparing, and presenting sound arguments, as well as developing strategies for refuting others' arguments. Students will explore areas of social, economic, and political controversy through the format of academic debate.

COMM 315 Persuasion 3 Units

Formerly: COMM 18

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Areas D2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course presents fundamental theories and techniques of persuasion as they occur in various communication contexts, including commercial, interpersonal, public, and mass media. Students develop critical thinking skills by engaging in analysis, evaluation, and composition of persuasive messages and by examining the personal, political, cultural, and social impacts of persuasion. Students explore ethical considerations of persuasive communication; learn about types of reasoning, and identify fallacious arguments as they occur in persuasion.

COMM 316 Advanced Argumentation and Critical Thinking 3 Units

Formerly: COMM 33

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
The primary emphasis of this course is on argumentation as the study of analysis, evidence, reasoning, refutation and rebuttal, etc., in oral and written communication. Significant components of instruction will be in written argumentation, with special attention to the essay form. Students write a minimum of 8,000 words divided among at least five essays, all of which require research. Curriculum includes critical thinking approaches to commercial, legal, political, and academic argumentation and persuasion.

COMM 321 Interpersonal Communication 3 Units

Formerly: COMM 10

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course focuses on the exploration of communication skills associated with satisfying relationships. Through theory, discussion, simulations, and structured exercises, students will explore various approaches to successful communication in interpersonal contexts. This course strives to increase an individual's personal communication effectiveness through heightened awareness and greater skill as both a sender and receiver of shared messages.

COMM 323 Listening 3 Units

Formerly: COMM 6

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course focuses on the listener in communication. The student will learn about the variables in listening and will learn to listen for a variety of purposes, such as listening for helping others, listening for critical evaluation, listening for content and listening for aesthetic pleasure. The student will work for competence in listening skills in both formal and professional settings.

COMM 325 Intercultural Communication 3 Units

Formerly: COMM 14

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the challenges and promises of intercultural communication in U.S. domestic situations. Variations and commonalities in communication patterns across cultures are examined. Communication processes and outcomes between persons of different cultural backgrounds are also explored. Practical application of factors which influence communication between individuals of different cultures is emphasized.

COMM 328 Gender Communication 3 Units

Formerly: COMM 16

Prerequisite: None
Advisory: COMM 301, COMM 321, PSYC 300, or SOC 341.
General Education: AA/AS Areas B2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to gender-related communication. Verbal, nonverbal similarities and differences are examined within historical, social, psychological, and cultural perspectives.

COMM 331 Group Discussion 3 Units

Formerly: COMM 15

Prerequisite: Eligibility for ENGWR 300.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to increase students' understanding of group communication and to prepare students to function more effectively in various types of groups. The course focuses primarily on communication in task and social groups, and assignments will include oral presentations (individual and/or group). The course addresses communication concepts and behaviors related to problem solving, decision-making, leadership, group roles, norms and conformity.

COMM 335 Conflict Management 3 Units

Formerly: COMM 22

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course examines the communication behaviors involved in the process of interpersonal, work group, and organizational conflicts. Course content will focus on conceptual understanding of theoretical foundations in the social sciences. Application and activities will address the components of conflict and the strategies by which conflict may effectively be managed in personal and professional settings.

COMM 341 Organizational Communication 3 Units

Formerly: COMM 13

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas B2, C
Acceptable for credit: CSU
54 hours Lecture
This course is designed to allow students to examine both theoretical and pragmatic essentials of effective organizational messages from preparation and presentation to effective observation and analysis. Students will explore the dynamics of organizational communication in various situations including focus groups, quality control groups, ad hoc committees, conflict negotiation teams, and problem-solving/decision-making groups. The roles of internal and external messages on the communication process and organizational effectiveness will be examined and analyzed.

COMM 343 Oral Communication in Business 3 Units

Formerly: COMM 21

Prerequisite: Eligibility for ENGWR 300 or concurrent enrollment in ENGWR 100 or ESLW 340.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture
This course offers students the opportunity to study contemporary communication principles and practices as they occur in modern organizations. Emphasis is placed on the application of enhancing personal and professional communication in the workplace. Students will receive instruction in utilizing various technologies in research, preparation and presentation. Content focuses on identifying communication styles, improving presentational skills in formal and informal settings, working in and managing small groups, recognizing effective persuasive strategies as used in organizations, and developing fundamental skills in interviewing and promotion.

COMM 345 Interviewing 3 Units

Formerly: COMM 17

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture
This course introduces students to the basic skills and fundamental concepts necessary for effective participation in the interview process. Special emphasis is given to practical experiences in a variety of interview contexts such as journalistic/probing, survey, and selection interviews.

COMM 351 Mass Media and Society 3 Units (Same as ENGWR 384 and JOUR 310)

Formerly: COMM 19

Advisory: ENGWR 100 with a "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course exploring aspects of communication and the impact of mass media on the individual and society. The survey includes basic communication models, books, magazines, newspapers, recordings, movies, radio, television, advertising, public relations, the Internet, theories of communication, relationships between mass media and business and government, processes and effects from a social science perspective.

COMM 361 The Communication Experience 3 Units

Formerly: COMM 9

Prerequisite: Eligibility for ENGWR 300.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to basic skills and the introductory concepts necessary for effective communication in a variety of settings with a variety of audiences. Special emphasis is placed on practical experience within groups, facilitation of interpersonal relationships, and methods of conflict management. As part of this course, students are required to actively participate in groups and deliver oral presentations, both individually and in groups.

COMM 363 Introduction to Communication Theory 3 Units

Formerly: COMM 8

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course will introduce the student to the symbolic process of human communication through the study of basic communication models, fundamental theory, and relevant research findings. Emphasis will be placed on achieving an understanding of the communication process and the process through which researchers in the field add to their existing body of knowledge.

COMM 371 Voice and Diction 3 Units

Formerly: COMM 7

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course covers the analysis and effective use of the voice to express thought and feeling in a variety of communication situations, including innuendo and mixed messages. Included is the study of the attributes of the vocal mechanism and speech process, including proper breathing; articulation and voice production; and interpretation of literary selections to achieve planned audience response.

COMM 374 Forensics Laboratory 1-3 Units

Formerly: COMM 4

Prerequisite: Completion of COMM 301 with a grade of "C" or better or concurrent enrollment in COMM 301.
Acceptable for credit: CSU
18 hours Lecture; 108 hours Laboratory
Through individualized instruction and participation in public speaking events, academic debate, literature interpretation, public campaigns, and/or training presentations, students will develop listening skills, organization skills, and the ability to recognize matters of political, social, and economic importance. This course helps students develop their skills as critical thinkers and competent speakers. This is a lecture/laboratory course giving practice in preparing for and participating in the Student Speaker's Bureau and/or Intercollegiate Forensics competition. Areas of interest include debate, persuasive speaking, oral interpretation of literature, impromptu speaking, expository speaking, readers' theater, training presentations and campaign development. Field trips may be required. The course is open entry/open exit and may be repeated for a maximum of eight units. Students earn 1 unit of credit for every 18 hours of lecture or 54 hours of lab.

COMM 494 Topics in Communication .5-4 Units

Formerly: COMM 11

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
72 hours Lecture
This course is designed to give students an opportunity to study a variety of topics dealing with rhetoric and public address, communication theory, or oral interpretation. Selected topics would not include current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

Community Leadership Development COMDE

Matriculation, Support Services, and Student Development

Lawrence G. Dun, Dean

South Gym 226

916-558-2194

COMDE 300 Leadership Skills Development 3 Units

Formerly: COMDE 10

Prerequisite: None
Advisory: COMM 301 or COMM 361 with a grade of "C" or better and ENGWR 100 or ESLW 310 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course provides an introduction to leadership and examines leadership theory and organizational behavior. It emphasizes leadership procedures and functions with regard to the community college experience. All students interested in learning and experiencing leadership, especially those comfortable with both oral and written communication, are encouraged to enroll.

CELEBRATING 90 YEARS

Community Studies
Emphasis on Direct Services

Associate in Arts Degree

Career Certificate

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Program Information
The degree and certificate in Community Studies (emphasis in Direct Services) are applied sociology programs. Sociological theory and perspectives provide the foundation for students to work as paraprofessionals at the assistant level, under the supervision of workers with professional degrees. Students may perform a variety of entry level, social service organization functions including resource development and referral, client screening, assessments, consultation, reports and record keeping.

Career Opportunities
The degree and certificate in Community Studies (emphasis in Direct Services) are designed to prepare students to work in public, private, and nonprofit community service organizations such as social service, educational, correctional, mental health, and community health agencies and programs. The degree may also serve as the first level of education in a career ladder leading to a BA or BSW degree and then on to advanced study in a variety of graduate programs leading to masters and doctoral degrees.

Required Program	**Units**
SOC 330, Issues in Multicultural Society	3
SOC 380, Introduction to Social Services	3
SOC 382, Introduction to Casework in Social Services	3
A minimum of 3 units from the following:	3
SOC 385, Practicum in Sociology (2 - 4)	
A minimum of 9 units from the following:	9
ADMJ 304, Juvenile Delinquency (3)	
ADMJ 340, Introduction to Correctional Services (3)	
BUS 320, Concepts in Personal Finance (3)	
PSYC 376, Personality (3)	
SOC 300, Introductory Sociology (3)	
SOC 301, Social Problems (3)	
PSYC 390, Psychology of Death and Dying (3)	
FCS 324, Human Development: A Life Span (3)	
or PSYC 370, Human Development: A Life Span (3)	
ADMJ 303, Substance Abuse: Effects on Body and Behavior (3)	
or PSYC 405, Substance Abuse-Effects on Body and Behavior (3)	
FCS 320, Marriage and the Family (3) or SOC 310, Marriage and the Family (3)	
FCS 330, Sociology of Aging (3) or SOC 335, Sociology of Aging (3) or GERON 330, Techniques for Communicating with and Validating Older Adults (3)	
Total Units Required	**21**

Suggested Electives
FCS 312, PSYC 320, PSYC 340, SOC 343

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Computer Information Science
CISA CISC CISN CISP CISS CISW

Associate in Science Degree

Career Certificate

Certificate of Completion

Department of Computer Information Science

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

Computer Science, Degree and Career Certificate

Management Information Science, Degree and Career Certificate

Database Management, Career Certificate

Programming, Career Certificate

Information Processing, Degree

Information Processing Specialist, Career Certificate

Information Processing Technician, Certificate of Completion

Word Processing Technician, Certificate of Completion

Information Systems Security, Degree and Career Certificate

Network Administration, Degree and Career Certificate

Network Design, Degree and Career Certificate

Advanced CISCO Networking, Certificate of Completion

Microcomputer Technician, Degree and Career Certificate

PC Support, Career Certificate

Web Developer, Career Certificate

Active Server Pages Developer, Certificate of Completion

Webmaster, Level 1, Career Certificate

Career Opportunities

Technical positions include: application developer, computer programmer, database administrator, database developer, database manager, database support assistant, information technology developer, information technology specialist, programmer, software designer, software tester, and systems analyst. Opportunities in networking and security include computer forensics specialist, computer operator, information security systems specialist, network administrator, network designer, network security specialist, network support specialist, network systems engineer, network technical support staff, and network troubleshooter. In the area of web site design and development, positions include: information systems analyst, information technology analyst, web database administrator, web designer, web developer, web server administrator, web systems analyst, web team member, and webmaster. Office related job openings include administrative assistant, assistant documentation specialist, business office employee, data entry personnel, information processing specialist, information technician, microcomputer applications specialist, office clerk, office manager, office supervisor, office worker, and retail clerk.

Transfer Information

CSU, Sacramento, offers a major in Computer Science through the School of Engineering and Computer Science. These five classes must be completed before students can be admitted as Computer Science or Computer Engineering majors at CSUS: CISP 401 (Java), CISP 430 (Data Structures), CISP 310 (Assembly Language), CISP 440 (Discrete Structures), and CISP 452 (Introduction to Systems Programming). Students should plan to take the prerequisites (CISC 310 and CISP 301 concurrently and then CISP 360) with enough time to complete the required courses before transfer. Computer Engineering majors should also take ENGR 400 (Circuits) prior to transfer. It is recommended that students complete Calculus and Physics before transfer and meet with a counselor before the end of the first year at SCC.

CSU, Sacramento, offers a major or minor in Management Information Science as part of the Business Administration degree. Students planning to transfer to CSU, Sacramento School of Business Administration should complete their MIS 1a, 1b, 1c in the form of our CISA

CELEBRATING 90 YEARS

308, CISA 310, CISC 308 to be admitted to the School of Business. MIS Majors should also complete CISP 370 (VB.NET) before transferring. Students should plan to take the prerequisites (CISC 310 and CISP 301 concurrently) with enough time to complete the required courses before transfer.

Students planning to transfer to CSU, Chico, should include computer-programming languages in C++, Java, or VB, assembly language, data structures, one year of calculus, and physics.

Students must also meet university admission requirements and other general education courses as outlined by each university.

Computer Science

Associate in Science Degree
Career Certificate

The Computer Information Science program is designed for students preparing for careers in computer programming and systems analysis. It provides a foundation in currently used and advanced programming languages. It will enhance students' skills so that they can transfer to four-year universities or qualify as entry-level programmers who pursue careers in the computer industry.

Required Core Program	**Units**
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISC 323, Linux Operating System	1
CISC 324, Intermediate Linux Operating System	1
CISP 360, Introduction to Structured Programming	4
CISA 323, Database Management using Microsoft Access	2
CISA 324, Database Management using SQL	2
CISP 310, Assembly Language Programming for Microcomputers	4
CISP 400, Object Oriented Programming with C++ (4) or CISP 401, Object Oriented Programming with Java (4)	4
CISP 430, Data Structures	4
A minimum of 6 units from the following:	6[1]
CISP 401, Object Oriented Programming with Java (4)	
CISP 370, Beginning Visual Basic (4)	
CISP 350, Database Programming (3)	
CISP 320, COBOL Programming (4)	
CISW 325, Intermediate Web Site Development (4)	
CISW 320, Introduction to Web Site Development (3)	
CISN 303, Network Administration (3)	
CISC 355, Introduction to Data Communications (1.5)	
CISC 351, Introduction to Local Area Networks (1)	
CISP 440, Discrete Structures for Computer Science (3)	
CISP 452, Introduction to Systems Programming (3)	
CISP 457, Computer Systems Analysis and Design (3)	
CISS 300, Introduction to Information Systems Security (1)	
CISS 301, Ethical Hacking (2)	
CISS 310, Network Security Fundamentals (3)	
CISW 410, Middleware Web Scripting (4)	
CISC 305, Introduction to the Internet (1)	
Total Units Required	**35**

[1]SCC transfer students to California State University, Sacramento, College of Engineering and Computer Science who are majoring in Computer Science or Computer Engineering should take CISP 440 and CISP 452 before starting their junior year at CSUS. CSUS Computer Engineering students should also take ENGR 400. SCC transfer students to CSUS, College of Business with MIS major or minor should take CISP 370 before transferring. SCC transfer students to University of California, Davis who are majoring in Computer Science should take CISP 440 before transferring.

Suggested Electives
BUS 100, BUS 300, BUS 330, CISC 110, ENGWR 300, ESLW 340, MATH 400, MATH 401, MATH 420, MGMT 306, PHYS 410, PHYS 420, STAT 300.

Associate in Science Degree (A.S.)
The Associate in Science (A.S.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Management Information Science

Associate in Science Degree
Career Certificate

The Management Information Science option is designed for students preparing for careers in business while using and managing computers effectively. The focus of the program is to develop student proficiency in a variety of computer applications and operating systems so that they can produce timely and accurate information. Elective courses give an opportunity to develop further skills in computer programming, data management, networking, Web development, and information systems security. It will enhance students' skills so that they may transfer to a four year university or qualify for entry-level positions in a variety of careers.

Note to Transfer Students:
If you are interested in transferring to a four-year college or university to pursue a bachelor's degree in this major, it is critical that you meet with a SCC counselor to select and plan courses for your major. Schools vary widely in terms of the required preparation.

Career Opportunities: Computer Operator, End-user Consultant, Programmer, Microcomputer Applications Specialist, Network Administrator, Technical Writer, Web Master, Web Developer, and Web Site Designer.

Required Program	Units
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 323, Database Management using Microsoft Access	2
CISA 340, Presentation Graphics	2
CISC 320, Operating Systems (1)	1
or CISC 323, Linux Operating System (1)	
CISC 305, Introduction to the Internet	1
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISP 360, Introduction to Structured Programming (4)	4
or CISP 320, COBOL Programming (4)	
or CISP 370, Beginning Visual Basic (4)	
A minimum of 4 units from the following:	4
CISP 320, COBOL Programming (4)	
CISP 370, Beginning Visual Basic (4)	
CISP 400, Object Oriented Programming with C++ (4)	
CISP 401, Object Oriented Programming with Java (4)	
A minimum of 4 units from the following:	4
CISA 306, Intermediate Word Processing (2)	
CISA 311, Intermediate Electronic Spreadsheets (1)	
CISA 324, Database Management using SQL (2)	
CISC 110, Using ePortfolios (1)	
CISC 321, Intermediate Operating Systems (1)	
CISC 324, Intermediate Linux Operating System (1)	
CISC 355, Introduction to Data Communications (1.5)	
CISC 360, Microcomputer Support and Maintenance (4)	
A minimum of 6 units from the following	6
CISC 306, Introduction to Web Page Creation (1)	
CISC 355, Introduction to Data Communications (1.5)	
CISN 300, Network Systems Administration (3)	
CISN 303, Network Administration (3)	
CISN 306, Advanced Network Systems Administration (3)	
CISN 308, Internetworking with TCP/IP (3)	
CISP 310, Assembly Language Programming for Microcomputers (4)	
CISP 320, COBOL Programming (4)	
CISP 342, Structured Programming with FORTRAN (4)	
CISP 350, Database Programming (3)	
CISP 370, Beginning Visual Basic (4)	
CISP 400, Object Oriented Programming with C++ (4)	
CISP 401, Object Oriented Programming with Java (4)	
CISP 430, Data Structures (4)	
CISP 440, Discrete Structures for Computer Science (3)	
CISP 452, Introduction to Systems Programming (3)	
CISP 457, Computer Systems Analysis and Design (3)	
CISS 300, Introduction to Information Systems Security (1)	
CISS 301, Ethical Hacking (2)	
CISS 310, Network Security Fundamentals (3)	
CISW 321, Web Site Development using Dreamweaver (3)	
CISW 320, Introduction to Web Site Development (3)	
CISW 325, Intermediate Web Site Development (4)	
CISW 400, Client-side Web Scripting (4)	
CISW 410, Middleware Web Scripting (4)	
CISW 420, Server-side Web Scripting (4)	
Total Units Required	**34**

Other Electives
ACCT 301, 311; BUS 310, ECON 302, 304; ENGWR 300; MATH 120, 400, 401; MGMT 306, STAT 300.

Associate in Science Degree (A.S.)
The Associate in Science Degree in Management Information Science may be obtained by completion of the required program, plus sufficient general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Database Management

Career Certificate

Database administrators need to manipulate existing or new databases such as inventories, lists, directories, etc. for the corporate world. With the explosion of technology, other computer-related positions are now requiring skills in one or more database packages. This certificate provides the basic knowledge and skills needed for positions in database administration and support.

Career Opportunities: Database skills are in high demand by nearly every organization and company. Employment opportunities include database support assistant, administrative assistant, customer or client service representatives, data entry clerk, Web developer, database manager, database administrator, and database developer.

Required Program	Units
CISA 310, Introduction to Electronic Spreadsheets (1)	1
CISA 323, Database Management using Microsoft Access	2
CISA 324, Database Management using SQL	2
CISC 320, Operating Systems (1)	
or CISC 323, Linux Operating System (1)	1
CISP 301, Algorithm Design and Implementation	4
CISP 350, Database Programming	3
CISP 370, Beginning Visual Basic	4
CISW 320, Introduction to Web Site Development	3
CISW 410, Middleware Web Scripting (4)	
or CISW 420, Server-side Web Scripting (4)	4
Total Units Required	**24**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Programming

Career Certificate

The programming certificate provides the basic proficiencies required of computer programmers for entry-level software technician positions or further study in Computer Science.

Career Opportunities: Programmer, Programmer-Analyst, Software Designer, Systems Analyst, Database Administrator, and Software Tester.

Required Program	Unit
BUS 310, Business Communications (3) or ENGWR 300, College Composition (3) or ENGWR 100, College Writing (3)	3
CISP 301, Algorithm Design and Implementation	4
CISP 360, Introduction to Structured Programming	4
CISP 400, Object Oriented Programming with C++ (4) or CISP 401, Object Oriented Programming with Java (4)	4
CISP 430, Data Structures	4
CISP 457, Computer Systems Analysis and Design	3
Total Units Required	**22**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Information Processing

Associate in Science Degree

This degree combines microcomputer software proficiencies, and competencies in hardware support, maintenance, and repair with general education requirements. Students will be able to incorporate three inter-related certificates (Word Processing Technician, Information Processing Technician, and Information Processing Specialist) as major fields of study with course work in natural science, social science, humanities, languages and rationality, and living skills to earn an Associate in Science degree in Information Processing.

Career Opportunities: Students who have obtained certificates (Word Processing Technician, Information Processing Technician, and Information Processing Specialist) are interested in attaining associate degrees for continued job advancement. Many employees with advance software proficiencies and competencies in hardware support, maintenance, and repair are considered top candidates for supervisory or managerial positions.

Such positions include office supervisors, office managers, computer support specialists, or information processing specialists. Based on recent Bureau of Labor Statistics (2002-2012) figures, job demands in these areas will grow approximately 19.2% and will continue to exceed the number of available and trained workers.

Required Program	Units
CISC 300, Computer Familiarization (1) or CISC 310, Introduction to Computer Information Science (3)	1-3
CISA 305, Beginning Word Processing	2[1]
CISA 305, Beginning Word Processing	2[2]
CISA 306, Intermediate Word Processing	2[3]
CISA 306, Intermediate Word Processing	2[4]
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 311, Intermediate Electronic Spreadsheets	1
CISC 320, Operating Systems	1[5]
CISA 340, Presentation Graphics	2
CISC 305, Introduction to the Internet	1
CISC 110, Using ePortfolios	1
CISA 320, Introduction to Database Management (1) and CISA 321, Intermediate Database Management (1) or CISA 323, Database Management using Microsoft Access (2)	2
ET 145, Basic Computer System Repair I (1) and ET 146, Basic Computer System Repair II (3) and ET 147, Basic Computer System Repair III (3) or CISC 360, Microcomputer Support and Maintenance (4)	4-7
Total Units Required	**22 - 27**

[1] *MS-WORD*
[2] *COREL WordPerfect - Windows or LINUX*
[3] *MS-WORD*
[4] *COREL WordPerfect - Windows or LINUX*
[5] *Windows or UNIX/LINUX*

Suggested Electives
CISC 306, 324, 351; CISS 300, ET 490.

Associate in Science Degree (A.S.)
The Associate in Science Degree in Information Processing may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Information Processing Specialist

Career Certificate

This career certificate builds upon a previous background in the use of microcomputer application programs. As the student advances in an office-related career path, technical expertise in all aspects of information processing is expected. In addition to advanced software courses in spreadsheet and database management, this certificate also provides the student with hands-on training in hardware support and maintenance.

Career Opportunities: Many students who are currently employed in mid-level office positions are interested in opportunities for advancement to lead or resource person. These positions require a high proficiency with office software applications as well as the ability to identify and troubleshoot microcomputer problems.

Such positions include: first line supervisors, administrative analysts, information resource personnel, or lead administrative specialists. Based on recent Bureau of Labor Statistics (2002-2012) figures, job demands in these areas will grow approximately 6.6% and will continue to exceed the number of available and trained workers.

Enrollment Limitation: Required Certificate Information Processing Technician. (Courses required for the Word Processing Technician Certificate are included in the following list of required courses for this certificate.)

Prerequisite: Required Certificate - Word Processing Technician

Required Courses	**Units**
CISC 300, Computer Familiarization (1) or CISC 310, Introduction to Computer Information Science (3)	1-3
CISA 305, Beginning Word Processing	2[1]
CISA 305, Beginning Word Processing	2[2]
CISA 306, Intermediate Word Processing	2[3]
CISA 306, Intermediate Word Processing	2[4]
CISC 110, Using ePortfolios	1
CISA 340, Presentation Graphics	2
CISC 305, Introduction to the Internet	1
CISA 310, Introduction to Electronic Spreadsheets	1
CISC 320, Operating Systems	1[5]
CISA 311, Intermediate Electronic Spreadsheets	1
CISA 320, Introduction to Database Management (1) and CISA 321, Intermediate Database Management (1) or CISA 323, Database Management using Microsoft Access (2)	2
ET 145, Basic Computer System Repair I (1) and ET 146, Basic Computer System Repair II (3) and ET 147, Basic Computer System Repair III (3) or CISC 360, Microcomputer Support and Maintenance (4)	4-7
Total Units Required	**22-27**

[1] *MS-WORD*
[2] *COREL WordPerfect - Windows or LINUX*
[3] *MS-WORD*
[4] *COREL WordPerfect - Windows or LINUX*
[5] *Windows or UNIX/LINUX*

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Information Processing Technician

Certificate of Completion, Level 3

This information processing technician certificate builds upon previous training in the use of word processing programs. As employees become more proficient with basic entry-level skills in word processing, advancement in the work place requires competencies in other microcomputer software programs. These include skills in the operating system, spreadsheet, database management, graphics, and the use of the Internet.

This certificate is one of two under-18 unit certificates designed for students interested in job advancement requiring additional computer skills.

Career Opportunities: Students who are currently employed in entry-level office-related jobs (many of which use word processing skills) are interested in opportunities for advancement. These positions usually require competencies in additional microcomputer applications courses in the Windows operating system, spreadsheet, database management, graphic presentations, and the use of the Internet.

Enrollment Limitation: Required Certificate Information Processing Technician. (Courses required for the Word Processing Technician Certificate are included in the following list of required courses for this certificate.)

Required Courses	**Units**
CISC 300, Computer Familiarization (1) or CISC 310, Introduction to Computer Information Science (3)	1-3
CISA 305, Beginning Word Processing	2[1]
CISA 305, Beginning Word Processing	2[2]
CISA 306, Intermediate Word Processing	2[3]
CISA 306, Intermediate Word Processing	2[4]
CISC 110, Using ePortfolios	1
CISA 340, Presentation Graphics	2
CISC 305, Introduction to the Internet	1
CISA 310, Introduction to Electronic Spreadsheets	1
CISC 320, Operating Systems	1[5]
CISA 320, Introduction to Database Management (1) or CISA 323, Database Management using Microsoft Access (2)	1-2
Total Units Required	**16 - 19**

[1] *MS-WORD*
[2] *COREL WordPerfect - Windows or LINUX*
[3] *MS-WORD*
[4] *COREL WordPerfect - Windows or LINUX*
[5] *Windows or UNIX/LINUX*

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better.

Word Processing Technician

Certificate of Completion, Level 2 or Level 3

This word processing certificate introduces students to microcomputer concepts and skills in two major word processing software packages currently used in the United States. This certificate allows students to bring basic computer knowledge and word processing skills to entry level positions. It also provides students with electronic documentation of all past and current educational and professional accomplishments and experiences to fit individual job requirements in business companies, private non-profit organizations, government agencies, and legal firms.

Career Opportunities: Word processing skills are in high demand by nearly every organization, company, or agency. Entry-level clerical, secretarial, and receptionist positions traditionally use software packages designed for word processing of memos and correspondence, reports, and manuals.

With the explosion and integration of technology in the work place, the demand for employees competent in manipulating text has evolved over to other computer-related office positions. Such positions include office assistants and clerks, information and records clerks, and correspondence clerks. Based on recent Bureau of Labor Statistics (2002-2012) figures, job demands in these areas will grow an average of 7% annually and will continue to exceed the number of available and trained workers.

Additionally, areas such as web site design, accounting or bookkeeping, banking, and supervisory/managerial positions require some skills in text processing as integral parts of the job.

Required Courses	**Units**
CISC 300, Computer Familiarization (1) or CISC 310, Introduction to Computer Information Science (3)	1-3
CISA 305, Beginning Word Processing	2[1]
CISA 305, Beginning Word Processing	2[2]
CISA 306, Intermediate Word Processing	2[3]
CISA 306, Intermediate Word Processing	2[4]
CISC 110, Using ePortfolios	1
Total Units Required	**10-12 Units**

[1] *MS-WORD*
[2] *COREL WordPerfect - Windows or LINUX*
[3] *MS-WORD*
[4] *COREL WordPerfect - Windows or LINUX*

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better.

Information Systems Security

Associate in Science Degree
Career Certificate

Information systems security has become a critical knowledge area for those interested in a career as an information technology professional. This degree provides the information and skills necessary for network administration professionals to implement security from internal and external threats for an enterprise network. It covers client and server security on different operating systems, disaster recovery planning, and forensics. This program also provides preparation for several computer information security certification exams, including the Computer Technology Industry Association (CompTIA) Security+ exam, Microsoft Certified Systems Engineer (MCSE) exams, and several of the Certified Information Systems Security Professional (CISSP) certification exams.

Career Opportunities: Information Security Systems Specialist, Computer Technician, Network Administrator, Network Systems Engineer.

Required Program for the Degree	**Units**
CISC 320, Operating Systems (1) or CISC 323, Linux Operating System (1)	1
CISN 300, Network Systems Administration (3) or CISN 303, Network Administration (3)	3
CISN 302, Intermediate Network Systems Administration	3
CISN 306, Advanced Network Systems Administration (3) or CISN 307, Windows Active Directory Services (3)	3
CISS 310, Network Security Fundamentals	3
CISS 320, Implementing Network Security and Counter Measures	3
CISS 330, Implementing Internet Security and Firewalls	3
CISS 341, Implementing Windows Operating System Security (3) or CISS 342, Implementing Linux Operating System Security (3)	3
CISS 350, Disaster Recovery	3
CISS 360, Computer Forensics and Investigation	3
A minimum of 3 units from the following:	3
CISC 310, Introduction to Computer Information Science (3)	
CISC 355, Introduction to Data Communications (1.5)	
CISC 351, Introduction to Local Area Networks (1)	
CISC 360, Microcomputer Support and Maintenance (4)	
CISN 306, Advanced Network Systems Administration (3)	
CISN 308, Internetworking with TCP/IP (3)	
CISN 322, Designing a Secure Windows Network (3)	
CISN 374, Messaging Server Administration (3)	
CISN 378, Database Administration for Microsoft SQL Server (3)	
CISN 324, Designing Windows Networking Services (3)	
CISN 140, CISCO Networking Academy (CCNA)™: Data Communication and Networking Fundamentals (3)	
CISN 370, Web Server Administration (3)	
CISC 324, Intermediate Linux Operating System (1)	
CISS 300, Introduction to Information Systems Security (1)	
CISS 301, Ethical Hacking (2)	
CISN 315, Advanced Network Administration (2)	
Total Units Required	**31**

Suggested Electives:

BUS 310, ENGWR 300, ESLW 340

Associate in Science Degree
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Information Systems Security

Career Certificate

Information systems security has become a critical knowledge area for those interested in a career as an information technology professional. This degree provides the information and skills necessary for network administration professionals to implement security from internal and external threats for an enterprise network. It covers client and server security on different operating systems, disaster recovery planning, and forensics. This program also provides preparation for several computer information security certification exams, including the Computer Technology Industry Association (CompTIA) Security+ exam, Microsoft Certified Systems Engineer (MCSE) exams, and several of the Certified Information Systems Security Professional (CISSP) certification exams.

Career Opportunities: Information Security Systems Specialist, Computer Technician, Network Administrator, Network Systems Engineer.

Required Program for the Career Certificate **Units**

CISC 320, Operating Systems (1)
or CISC 323, Linux Operating System (1) 1
CISN 300, Network Systems Administration (3)
or CISN 303, Network Administration (3)
or CISN 304, Networking Technologies (3) 3
CISS 310, Network Security Fundamentals 3
CISS 320, Implementing Network Security and Counter Measures 3
CISS 330, Implementing Internet Security and Firewalls 3
CISS 341, Implementing Windows Operating System Security (3)
or CISS 342, Implementing Linux Operating System Security (3) 3
A minimum of 6 units from the following: 6
CISN 322, Designing a Secure Windows Network (3)
CISS 360, Computer Forensics and Investigation (3)
CISS 350, Disaster Recovery (3)
CISS 355, Information Systems Security and Assurance Principles (3)

Total Units Required **22**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Network Administration

Associate in Science Degree
Career Certificate

The Network Administration Degree and Career Certificate recognize the basic skills needed in the networking environment. Focus is on the knowledge and skills required for day-to-day operation and management of computer networks. The Network Administration Degree and Career Certificate prepare students for entry-level positions in computer network administration.

Career Opportunities: Network technical support staff, network administrators, network designers, network troubleshooters, and information systems security specialists.

Required Program **Units**

CISC 320, Operating Systems (1)
or CISC 323, Linux Operating System (1) 1
CISN 300, Network Systems Administration (3)
or CISN 303, Network Administration (3)
or CISN 304, Networking Technologies (3) 3
CISN 302, Intermediate Network Systems Administration 3
CISN 306, Advanced Network Systems Administration 3
CISN 308, Internetworking with TCP/IP 3
CISS 300, Introduction to Information Systems Security 1
A minimum of 13 units from the following: 13
CISC 310, Introduction to Computer Information Science (3)
CISC 324, Intermediate Linux Operating System (1)
CISC 351, Introduction to Local Area Networks (1)
CISC 355, Introduction to Data Communications (1.5)
CISN 140, CISCO Networking Academy (CCNA)™: Data Communication and Networking Fundamentals (3)
CISN 141, CISCO Networking Academy (CCNA)™: Networking Theory and Routing Technologies (3)
CISN 146, Network Design and Projects (3.5)
CISN 303, Network Administration (3)
CISN 304, Networking Technologies (3)
CISN 305, Managing a Windows Network Environment (3)
CISN 315, Advanced Network Administration (2)
CISN 320, Designing Windows Directory Services (3)
CISN 322, Designing a Secure Windows Network (3)
CISN 324, Designing Windows Networking Services (3)
CISN 370, Web Server Administration (3)
CISN 374, Messaging Server Administration (3)
CISS 301, Ethical Hacking (2)
CISS 310, Network Security Fundamentals (3)
CISS 320, Implementing Network Security and Counter Measures (3)
CISS 330, Implementing Internet Security and Firewalls (3)
CISS 360, Computer Forensics and Investigation (3)

Total Units Required **27**

Suggested Electives
BUS 310, ENGWR 300, ESLW 340

Associate in Science Degree
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Network Design

Associate in Science Degree
Career Certificate

The Network Design Degree and Career Certificate recognize the basic skills needed in the networking environment. Focus is on the knowledge and skills required for day-to-day operation and management of computer networks. The Network Design Degree and Career Certificate prepare students for entry-level positions in computer network design.

Career Opportunities: Network technical support staff, network administrators, network designers, network troubleshooters, and information systems security specialists.

Required Program	Units
CISC 320, Operating Systems (1)	
or CISC 323, Linux Operating System (1)	1
CISN 140, CISCO Networking Academy (CCNA)™:	
Data Communication and Networking Fundamentals	3
CISN 141, CISCO Networking Academy (CCNA)™:	
Networking Theory and Routing Technologies	3
CISN 142, CISCO Networking Academy (CCNA)™:	
Advanced Routing and Switching	3
CISN 143, CISCO Networking Academy (CCNA)™:	
Wide Area Network and Project-Based Learning	3
CISN 146, Network Design and Projects (3.5)	
or CISN 136, Wireless Technologies (3)	3-3.5
CISN 308, Internetworking with TCP/IP	3
CISS 310, Network Security Fundamentals	3
A minimum of 6 units from the following:	6
CISC 310, Introduction to Computer Information Science (3)	
CISN 136, Wireless Technologies (3)	
CISN 300, Network Systems Administration (3)	
CISN 303, Network Administration (3)	
CISN 304, Networking Technologies (3)	
CISN 324, Designing Windows Networking Services (3)	
Total Units Required	**28-28.5**

Suggested Electives:
BUS 310, ENGWR 300, ESLW 340

Associate in Science Degree
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Advanced CISCO Networking

Certificate of Completion, Level 3

The Advanced CISCO Networking Certificate recognizes the advanced skills needed for job enhancement and promotion in today's networking and Internet environment. It focuses on advanced knowledge and skills required for supervisory, management, and troubleshooting computer network operations. It prepares students for promotional positions in computer network design.

Career Opportunities: Network technical support staff, network administrators, network designers, network troubleshooters, and information systems security specialists.

Required Program	Units
CISN 150, CISCO Networking Academy (CCNP)™:	
Advanced Router Configuration	3
CISN 151, CISCO Networking Academy (CCNP)™:	
Remote Access	3
CISN 152, CISCO Networking Academy (CCNP)™:	
Multi-Layer Switching	3
CISN 153, CISCO Networking Academy (CCNP)™:	
Internetwork Troubleshooting	3
Total Units Required	**12**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better.

Microcomputer Technician

Associate in Science Degree
Career Certificate

Designed for Electronics Technology and Computer Information Science students pursuing employment in the area of programming and maintaining microcomputer systems.

Required Program	Units
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISP 363, Structured Programming with BASIC	2
CISC 320, Operating Systems (1)	
or CISC 323, Linux Operating System (1)	1
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 311, Intermediate Electronic Spreadsheets	1
CISA 320, Introduction to Database Management (1)	
or CISA 323, Database Management using Microsoft Access (2)	1-2
ET 145, Basic Computer System Repair I (1)	
and ET 146, Basic Computer System Repair II (3)	
or CISC 360, Microcomputer Support and Maintenance (4)	4
ET 340, Basic Microprocessors	5
ET 390, Microprocessor Systems - Troubleshooting	3
ET 490, Advanced Student Projects Laboratory	2
CISC 355, Introduction to Data Communications (1.5)	
or CISN 300, Network Systems Administration (3)	
or CISN 303, Network Administration (3)	1.5-3
A minimum of 4 units from the following:	4
ET 300, DC Theory and Circuit Fundamentals (2.5)	
and ET 301, AC Theory and Circuit Fundamentals (2.5)	
ET 306, Electronics Fabrication and Soldering Techniques (2)	
ET 310, Mathematics for DC Circuit Fundamentals, Part I (1.5)	
and ET 311, Mathematics for AC Circuit Fundamentals, Part II (1.5)	
ET 320, Semiconductor Theory (5)	
EDT 310, Computer Aided Drafting (3)	
EDT 352, Electrical and Electronics Drafting Design (4)	
TECH 100, Introduction to Technology (1)	
TECH 103, Technical Communication (3)	
TECH 300, Introduction to Robotic Systems Application (3)	
TECH 310, Industrial Safety (1)	
TECH 315, Industrial Relations (1)	
CISN 300, Network Systems Administration (3)	
CISC 351, Introduction to Local Area Networks (1)	
CISN 303, Network Administration (3)	
CISN 304, Networking Technologies (3)	
Total Units Required	**32.5 - 35**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

PC Support
Career Certificate

With the rapid expansion of computers into all aspects of society, there is a growing need for technicians with a broad range of knowledge in computer applications to install, maintain, and support computers and the networks that they utilize. Students earning this certificate are prepared to acquire entry-level positions in computer support. Employers hiring students earning this certificate will immediately benefit from the skills the students bring to their jobs.

Career Opportunities: Career opportunities for students receiving the PC Support Certificate include entry level positions in the following areas; Technical Salesperson, Help Desk Support Technician, Systems Analyst, Data Entry Personnel, Assistant Documentation Specialist, and Assistant Trainer.

Required Program	**Units**
BUS 310, Business Communications (3)	3 - 4
or ENGWR 300, College Composition (3)	
or ESLW 340, Advanced Composition (4)	
CISC 310, Introduction to Computer Information Science	3
CISC 320, Operating Systems	1
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Database Management	1
CISC 355, Introduction to Data Communications	1.5
CISC 351, Introduction to Local Area Networks	1
CISC 305, Introduction to the Internet	1
CISA 340, Presentation Graphics	2
CISC 306,Introduction to Web Page Creation (1)	1-3
or CISW 320, Introduction to Web Site Development (3)	
CISC 360, Microcomputer Support and Maintenance (4)	2-4
or [ET 14, Basic Computer System Repair I (1)	
and ET 145, Basic Computer System Repair I (1)]	
Total Units Required	**18.5-24.5**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Web Developer
Career Certificate

Web Developers are proficient at creating Web site structure and interactivity. The Web Developer certificate requires students to use database tools and custom applications to design, code, and test interactive Web sites. There is emphasis on learning the programming and scripting languages that connect a database to a Web site. The certificate was previously called Web Programming.

Career Opportunities: Web Developer, Web Site Specialist, Webmaster, Systems Analyst, Web Systems Analyst, IT Analyst, Web Database Administrator, Back-end Developer.

Required Courses	**Units**
CISW 320, Introduction to Web Site Development	3[1]
CISC 323, Linux Operating System (1)	1
CISC 324, Intermediate Linux Operating System	1
CISA 324, Database Management using SQL	2
CISP 401, Object Oriented Programming with Java	4
CISP 350, Database Programming	3
CISW 325, Intermediate Web Site Development	4[2]
CISW 370, Designing Accessible Web Sites	1
CISW 400, Client-side Web Scripting	4
CISW 410, Middleware Web Scripting (4)	4
or CISW 420, Server-side Web Scripting (4)	
CISW 440, XML: Introduction to Extensible Markup Language	2
CISW 470, Web Projects	3
Total Units Required	**32**

[1] *CISW 300 can be used to fulfill this requirement.*
[2] *CISW 310 can be used to fulfill this requirement.*

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Active Server Pages Developer
Certificate of Completion

This career certificate is designed to prepare students to develop, design, manage, and create Websites using Active Server Pages (ASP).

Career Opportunities: Webmaster, Web Developer, IT Specialist, IT Developer, Technology Specialist, Web Administrator.

Required Program	**Units**
CISW 320, Introduction to Web Site Development	3
CISW 325, Intermediate Web Site Development	4
CISW 370, Designing Accessible Web Sites	1
CISW 410, Middleware Web Scripting	4
CISW 411, Middleware Scripting Database Web Applications	2
CISW 470, Web Projects	3
Total Units Required	**17**

Webmaster, Level 1

Career Certificate

Webmasters are practitioners of communication via the World Wide Web who are proficient in the technical aspects of Web site design and development, as well as the implementation and administration of Web servers. The Webmaster, Level 1 certificate requires learning to use current markup languages and industry standard software for Web content development and presentation, following the international standards as recommended by the World Wide Web Consortium. This certificate prepares the student for employment as a member of a Web development team.

Career Opportunities: Webmaster, Web Team Member, Information System Analyst, Information Technology Analyst, Web Designer.

Required Program	**Units**
CISC 305, Introduction to the Internet (1)	
or CISC 355, Introduction to Data Communications (1.5)	1-1.5
CISC 320, Operating Systems (1)	
or CISC 323, Linux Operating System (1)	
or GCOM 101, Introduction to the Macintosh (1.5)	1-1.5
MKT 330, Internet Marketing	3
CISW 320, Introduction to Web Site Development	3[1]
CISW 350, Imaging for the Web (1)	
or GCOM 360, Graphics for the Web (3)	1-3
GCOM 361, Creative Web Page Design	3
CISW 370, Designing Accessible Web Sites	1
CISW 304, Cascading Style Sheets	2
CISW 321, Web Site Development using Dreamweaver	3
CISW 325, Intermediate Web Site Development (4)	
or CISW 400, Client-side Web Scripting (4)	4[2]
CISW 470, Web Projects (3)	
or GCOM 103, Web Projects (3)	3
Total Units Required	**25-28**

[1]CISW 300 can be used to fulfill this requirement.
[2]CISW 310 can be used to fulfill this requirement.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Computer Info Science - Applications (CISA)

CISA 305 Beginning Word Processing 2 Units

Formerly: CIS 11A

Prerequisite: CISC 300 or 310 with a grade of "C" or better.
Advisory: Completion of BUSTEC 300.1 or BUSTEC 100.1 with a grade of "C" or better or keyboarding at 28 wpm.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
The course introduces the student, through hands-on operation, to the use of word processing on microcomputers. The course includes basic word processing operations such as terminology and screen formats, dialog boxes, text editing, text formatting, text enhancements, sorting, tables, merging functions, saving and retrieving, and printing text. The course may be taken two times for credit on a different software package or operating system.

CISA 306 Intermediate Word Processing 2 Units

Formerly: CIS 11B

Prerequisite: CISA 305 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course builds upon previous training in the use of word processing programs. The course includes a brief review of basic editing and text concepts, then covers intermediate software features such as document processing functions, macro programming functions, complex document styles and commands, and table and graphics application. The course incorporates all word processing features into the production of one final presentation/job portfolio. The course may be taken two times for credit on a different software package or operating system.

CISA 308 Exploring Word Processing and Presentation Software 1 Unit

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces the student to word processing and presentation software. The basic features and skills of creating, editing, formatting, inserting tables and graphics, and enhancing word documents and PowerPoint presentations are covered. This course does not meet the requirements for SCC CIS certificates or degrees.

CISA 310 Introduction to Electronic Spreadsheets 1 Unit

Formerly: CIS 12A

Prerequisite: None
Advisory: Completion of CISC 300 or CISC 310 and BUSTEC 100.1 or BUSTEC 300.1 with a grade of "C" or better or touch-typing at 28 wpm. Touch-typing skill will make spreadsheet preparation easier.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces the student to the use of electronic spreadsheet programs. The course includes designing a spreadsheet, developing formulas for automatic calculations, using special

functions, developing lists, and producing printed reports. Graphic capabilities are presented. The course may be taken three times for credit on a different software package or operating system.

CISA 311 Intermediate Electronic Spreadsheets 1 Unit

Formerly: CIS 12B

Prerequisite: CISA 310 with a grade of "C" or better.
Advisory: Completion of CISC 300 or CISC 310 and BUSTEC 100.1 or BUSTEC 300.1 with a grade of "C" or better or touch-typing at 28 wpm. Touch-typing skill will make spreadsheet preparation easier.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course will extend the capabilities of students who have started to use electronic spreadsheet software. Topics and laboratory assignments will include using multiple worksheets and workbooks, web tools, scenario management, solver, imported data, the lookup function, and macros. The course may be taken three times for credit on a different software package or operating system.

CISA 320 Introduction to Database Management 1 Unit

Formerly: CIS 13A

Prerequisite: None
Advisory: CISC 300 or CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces database management systems. Using Windows application programs, students will design and implement practical database applications. Topics include database and reports design, data views and queries, and data maintenance. This course may be taken three times for credit on different software programs or operating systems.

CISA 321 Intermediate Database Management 1 Unit

Formerly: CIS 13B

Prerequisite: CISC 320 with a grade of "C" or better.
Advisory: Completion of CISC 300 or CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course will extend the capabilities of students who have completed a first course in microcomputer database management. Students design and implement practical database applications, including relational database design to develop programming applications. The course may be taken three times for credit on a different software package or operating system.

CISA 323 Database Management using Microsoft Access 2 Units

Prerequisite: CISC 300 or 310 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours lecture, 27 hours laboratory
This course introduces database management systems in a single-user environment. Students will learn to use a Windows-based application, including the full development of an original database. Topics include database objects, data types, data integrity, relational tables, complex queries, forms, reports, sharing data with other Windows applications, and data maintenance. Students who have completed both CISA 320 and CISA 321 with the same version of software may not receive credit for this course. This course may be taken three times for credit with a different version of the software.

CISA 324 Database Management using SQL 2 Units

Prerequisite: CISA 323 with a grade of "C" or better; or CISA 320 and CISA 321 with grades of "C" or better
Advisory: CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours lecture, 27 hours laboratory
This course will extend the capabilities of students who have completed a first course in microcomputer database management, with emphasis on database design, reporting, application building, and utilization of files created using other software. Using Structured Query Language (SQL) in multiple relational database environments, students will design and implement practical database applications. Topics include relational database design, data normalization, administering databases on a server, and creating queries using select statements.

CISA 340 Presentation Graphics 2 Units

Formerly: CIS 15A

Prerequisite: None
Advisory: Completion of BUSTEC 300.1 or BUSTEC 100.1 or touch typing at 28 wpm, and CISC 300 or CISC 310 with a grade of "C" or better. Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course presents an in-depth look at using computers as a graphics presentation tool to assist oral, written, and on-screen presentations. Topics include system requirements, graphic software, elements of a good presentation, types of graphics, and designing slide show techniques for visual presentations. Students will learn how to edit and format presentations, animation, organizational charts, and clips (graphics, sounds, or video). Designing presentations linked to word processing, spreadsheet, or database programs is included. Students will use a variety of computer hardware and software to produce individual and/or group projects. The class will include both lecture and hands-on experience.

Computer Info Science - Core (CISC)

CISC 90 Computer Skills for New Users 1 Unit

Prerequisite: None
18 hours Lecture
Non-degree Applicable
This course introduces the beginning computer student, through hands-on operation, to the features of the microcomputer. The student will learn how to purchase a computer system, how the computer works and what computers can do, including a brief overview of Windows operations, word processing, spreadsheets, the use of the Internet and e-mail. This course does not fulfill the prerequisite requirement for any Computer Information Science course in applications, programming, web page, or networking. This course is non-degree, non-certificate applicable. This course is designated as a Credit/No Credit course only and may be taken a

maximum of three times. This course will prepare the student for beginning computer courses.

CISC 110 Using ePortfolios 1 Unit

Prerequisite: None
18 hours Lecture
The course covers ePortfolios which is the electronic equivalent of portfolio applications. It is designed to demonstrate how students can assemble digital content files of any types and structured data forms to build multiple, tailored views of these items, and share each of the views with appropriate third parties over the Internet. Students will learn how to include work samples, grades and essays, biographical information, in-progress course work, digital media, special versions of different résumés for different jobs, reference letters, transcripts, writing samples, and other work products.

CISC 300 Computer Familiarization 1 Unit

Formerly: CIS 1

Prerequisite: None
Advisory: Completion of BUSTEC 300.1 or BUSTEC 100.1 with a grade of "C" or better or touch typing at 28 wpm.
General Education: AA/AS Area D2
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course acquaints students with how computers are used in the home and in business functions. The course will emphasize microcomputers, how they work, how they can be used, and the terminology of the computer world. Microcomputer applications using the Windows environment will be presented, and hands-on laboratory assignments will be given. This course does not serve as a prerequisite to computer science programming courses, but does serve as a prerequisite/advisory for Computer Information Science application courses. The course is specially designed for students wishing a very general, non-technical, introductory course in computers.

CISC 305 Introduction to the Internet 1 Unit

Formerly: CIS 21A

Prerequisite: None
Advisory: CISC 300 or CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture
This course explains how the Internet works, how to connect, and how to use Internet services. Laws that guide the use of the Internet will be covered. Other topics include Internet protocols, e-mail, news groups, discussion lists, connecting to a remote server, File Transfer Protocol (FTP), World Wide Web, and emerging technologies.

CISC 306 Introduction to Web Page Creation 1 Unit

Formerly: CIS 21B

Prerequisite: CISC 300 or 310 with a grade of "C" or better.
Advisory: Completion of CISC 305 with a grade of "C" or better
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course covers the production of Web pages, including formatting, layout, construction, and presentation. A current markup language, such as XHTML, is used to format Web pages. Students may also use a Web authoring tool to create Web pages.

CISC 308 Exploring Computer Environments and the Internet 1 Unit

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
The course acquaints the student with the fundamentals of microcomputer hardware, software and computer networking, focusing on widely used hardware and operating system, IBM personal computers and the Windows operating system. The fundamentals of the Internet and Internet tools are introduced. This course does not meet the requirements for SCC CIS certificates and degrees. This course prepares students to take the MIS 1A challenge test at CSU Sacramento.

CISC 310 Introduction to Computer Information Science 3 Units

Prerequisite: None
Advisory: CISC 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of the computer field covering the function and purpose of computer hardware and software, computer programming concepts, productivity software, employment opportunities, and the social impact of the computer.

CISC 320 Operating Systems 1 Unit

Formerly: CIS 14A

Prerequisite: None
Advisory: CISC 300 or CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces the students to the microcomputer operating system. The student will become familiar with basic features, file and program management, disk management commands, and menus. This course may be taken three times for credit for different operating systems.

CISC 321 Intermediate Operating Systems 1 Unit

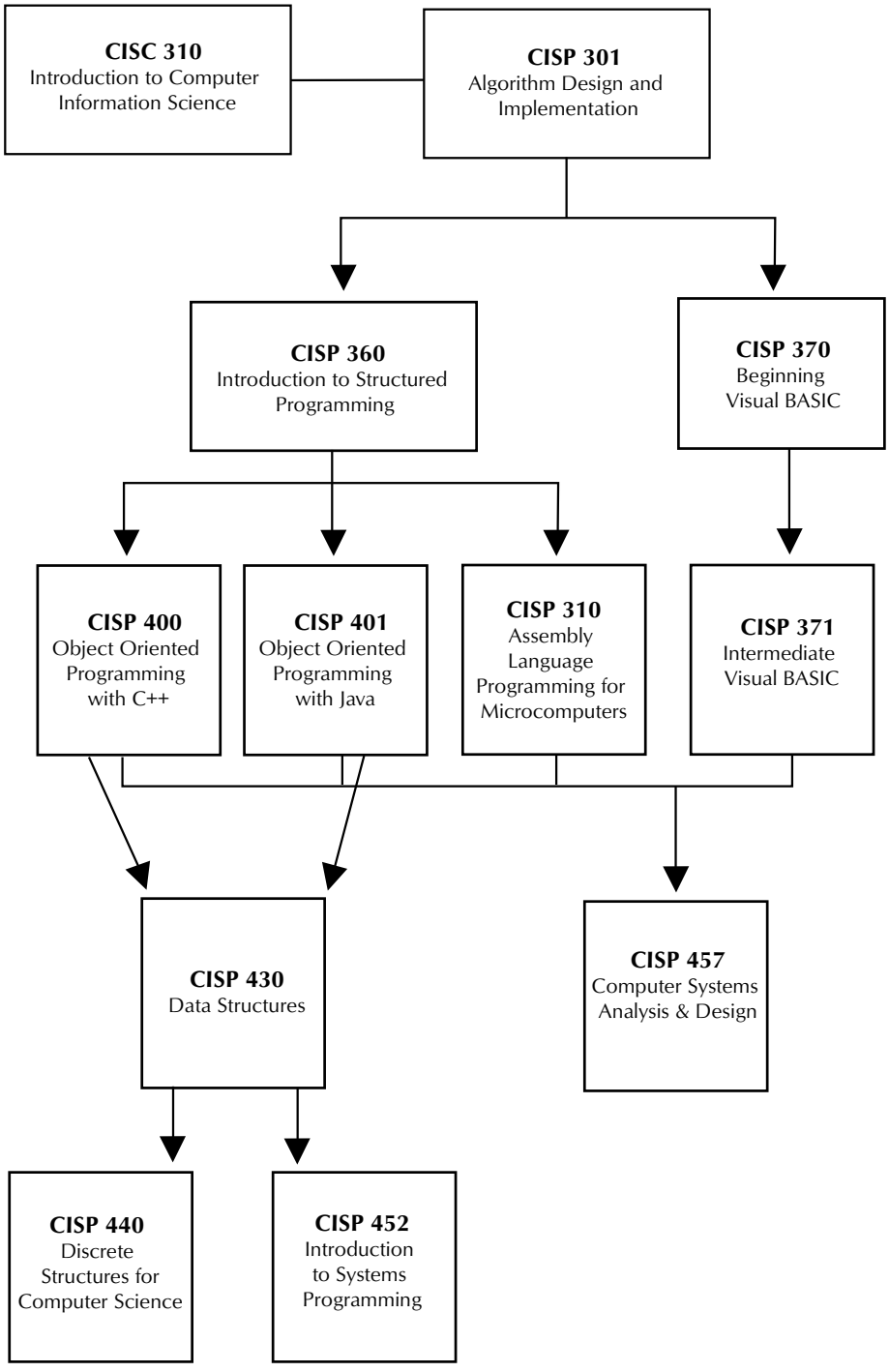
Formerly: CIS 14B

Prerequisite: CISC 320 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
The course covers the study of intermediate and advanced commands, effective utility use, advanced batch files/script files, program logic, disk organization, making user-friendly systems, and anticipating, and preventing system problems. The course may be taken three times using different operating systems or versions.

CISC 323 Linux Operating System 1 Unit

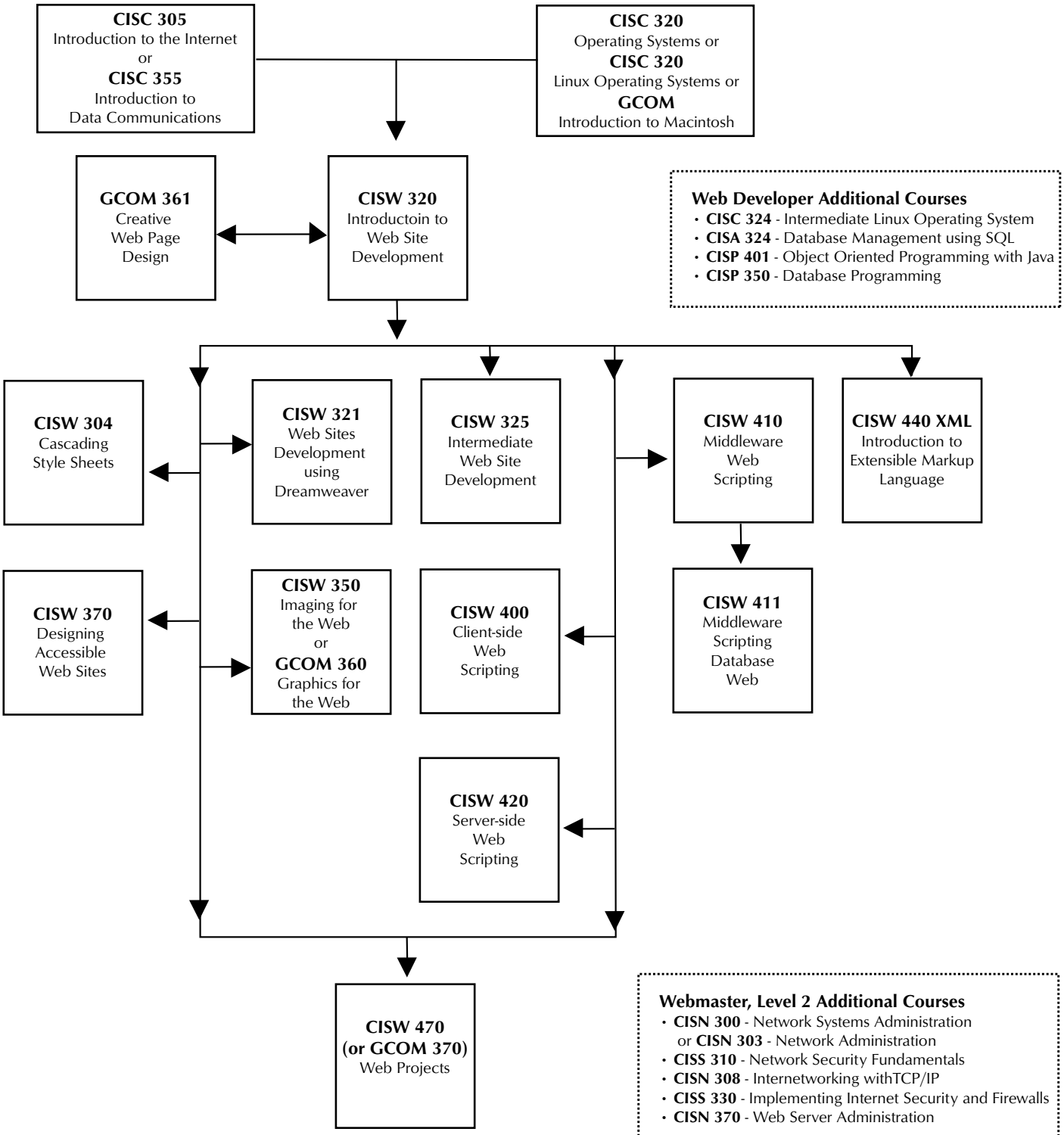
Prerequisite: None
Advisory: CISC 300 with a grade of "C" or better and ability to touch type.
Acceptable for credit: CSU
18 hours lecture, 18 hours laboratory
This course introduces the Linux operating system for microcomputers. Concepts include kernels, file structures, daemons, shells, GUIs, procedures for installing software, creation of user accounts, shell commands, scripts, and file security.

Computer Information Science
Sequence of Modern Programming Language Courses



- CIS and MIS majors should enroll in both CISC 310 and CISP 301 at the same time.
- Transfer students should check with their counselor for degree requirements.

Computer Information Science
Sequence of Web Courses



Note: There is also another sequence of Web Design courses in Graphic Communications.
All students should consult with a counselor to select the best courses to meet their academic goals.

CISC 324 Intermediate Linux Operating System 1 Unit

Prerequisite: CISC 323 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours lecture, 18 hours laboratory
This course is a continuation of CISC 323. It covers advanced shell scripting. C Shell, K Shell, BASH, and other varieties will be compared. It also includes decision-making logic, looping, nesting, and other scripting tools will be used.

CISC 351 Introduction to Local Area Networks 1 Unit

Formerly: CIS 16B

Prerequisite: CISC 355 with a grade of "C" or better.
Advisory: Completion of CISC 320 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces local area networks and provides hands-on training in Local Area Network (LAN) applications and administration. Topics include planning, installing, and maintaining a LAN, responsibilities of the system administrator, and human implications. Lab activities will be completed using local area network.

CISC 355 Introduction to Data Communications 1.5 Units

Prerequisite: None
Advisory: Completion of CISC 300 or 310 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture
This course will introduce business data communications. Students will learn about media, telecommunications, protocols, interfaces, and packet switching. Independent assignments will include research using the Internet for locating, viewing, printing, and downloading information.

CISC 360 Microcomputer Support and Maintenance 4 Units

Formerly: CIS 29

Prerequisite: CISC 300 or CISC 310 and CISC 320 and CISC 351 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course is an introduction to technical support and maintenance of microcomputers. It includes lecture and hands-on application of help desk concepts and responsibilities, hardware and software troubleshooting in a networked environment, system documentation, and technical communication skills. Seventy-two hours of internship are required as part of the laboratory component of the course.

CISC 498 Work Experience in Computer Information Science 1-4 Units

Formerly: CIS 98

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
See Work Experience.

Computer Info Science-Network (CISN)

CISN 136 Wireless Technologies 3 Units

Prerequisite: CISN 141 with a grade of "C" or better.
General Education: AA/AS Area D2
54 hours Lecture, 18 hours Laboratory
This introductory course to wireless networking focuses on the design, planning, implementation, operation and troubleshooting of wireless networks. It covers a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands-on skills in set up and troubleshooting; 802.11a and 802.11b technologies, products and solutions; site surveys; resilient WLAN design, installation, and configuration; WLAN security and vendor interoperability strategies.

CISN 140 CISCO Networking Academy (CCNA)™: Data Communication and Networking Fundamentals 3 Units

Formerly: CIS 72A

Prerequisite: None
Advisory: CISC 320 and CISC 300 or CISC 310 with grades of "C" or better.
General Education: AA/AS Area D2
54 hours Lecture; 18 hours Laboratory
This course is designed to introduce students to data communication and networking fundamentals. The course surveys data communication hardware and software components and basic networking concepts. Topics covered include data communication, the OSI Model, IP addressing, routing concepts, LAN media, and network management and analyses. This is the first course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 141 CISCO Networking Academy (CCNA)™: Networking Theory and Routing Technologies 3 Units

Formerly: CIS 72B

Prerequisite: CISN 140 with a grade of "C" or better.
General Education: AA/AS Area D2
54 hours Lecture; 18 hours Laboratory
This course provides an introduction to networking theory and routing technologies, including OSI Model, beginning router configurations, routed and routing protocols. This is the second course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 142 CISCO Networking Academy (CCNA)™: Advanced Routing and Switching 3 Units

Formerly: CIS 72C

Prerequisite: CISN 141 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course provides advanced routing and switching technologies. Topics include advanced router configurations, network management, advanced network design, LAN switching, and VLANS. This is the third course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 143 CISCO Networking Academy (CCNA)™: Wide Area Network and Project-Based Learning 3 Units

Formerly: CIS 72D

Prerequisite: CISN 142 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills to design and configure advanced wide area network (WAN) projects using CISCO IOS command set. This is the fourth course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 146 Network Design and Projects 3.5 units

Prerequisite: CISN 141 with a grade of "C" or better.
General Education: AA/AS Area D2
54 hours Lecture; 27 hours Laboratory
This course covers various state-of-the-art topics to design CISCO network infrastructures to support network services and solutions. Individual topics may include: introduction to voice design concepts; design principles; network structure and IP addressing design concepts; basic campus switching design and WAN design considerations; routing protocol design considerations; introduction to security design concepts and network management design concepts.

CISN 150 CISCO Networking Academy (CCNP)™: Advanced Router Configuration 3 Units

Formerly: CIS 73A

Prerequisite: CISN 143 with a grade of "C" or better, or valid CISCO Certified Network Associate (CCNA) certification.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in advanced outer configuration using CISCO IOS command set. Topics include advanced IOS command set, network design, scalable routing protocols (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), and Border Gateway protocol (BGP). This is the first course in a series of four advanced courses in preparation for CISCO certification examination.

CISN 151 CISCO Networking Academy (CCNP)™: Remote Access 3 Units

Formerly: CIS 73B

Prerequisite: CISN 150 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in building remote access networks. Topics include design, configuration, enabling on-demand connections, enabling permanent connections, scaling remote access networks and remote access network setup, and management. This is the second course in a series of four advanced courses in preparation for the CISCO certification examination.

CISN 152 CISCO Networking Academy (CCNP)™: Multi-Layer Switching 3 Units

Formerly: CIS 73C

Prerequisite: CISN 151 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in multi-layer switched networks. Topics include how routing and switching technologies work together, building campus networks using multiplayer switching technologies, using VLAN, improving IP performance and securing the campus network model. This is the third course in a series of four advanced courses in preparation for the CISCO certification examination.

CISN 153 CISCO Networking Academy (CCNP)™: Internetwork Troubleshooting 3 Units

Formerly: CIS 73D

Prerequisite: CISN 152 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in fundamental hardware maintenance and troubleshooting routers and switches. Topics include managing and maintaining networks, troubleshooting tools and methodology, routing and routed protocol troubleshooting, campus switch and VLAN troubleshooting and WAN troubleshooting. This is the fourth course in a series of four advanced courses in preparation for the CISCO certification examination.

CISN 300 Network Systems Administration 3 Units

Formerly: CISN 100, CIS 80

Prerequisite: None
Advisory: CISC 320 (Windows or Linux) with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the administration of a server in a client/server network. Topics include designing a basic network, installing, and configuring a network share, setting up and managing network printers, backing up servers, monitoring and troubleshooting network resources, and establishing policies and procedures for network operations. This course covers materials required for the Microsoft Networking examinations.

CISN 302 Intermediate Network Systems Administration 3 Units

Formerly: CISN 102, CIS 81

Prerequisite: CISN 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers advanced system administration in a client/server network. Topics include configuring the server environment, implementing system policies, implementing and managing fault-tolerant disk volumes, managing applications, managing connectivity for different network and client operating systems, managing remote servers, implementing directory replication and file synchronization, and advanced troubleshooting techniques. This course may be taken four times for credit with different operating systems. This course covers material required for the Microsoft Networking examinations.

CISN 303 Network Administration 3 Units

Formerly: CIS 60

Prerequisite: None
Advisory: CISC 323 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 36 hours Laboratory
This course covers the basic of managing an existing Local Area Network (LAN). Topics covered include connecting to a network; utilizing network utilities; planning, accessing, and managing file systems; planning and implementing login and file system security; administering and maintaining the user and printer environment; protecting network data; and installing network applications. This course may be taken twice for credit on a different operating system. This course covers material required for software manufacturer's certification.

CISN 304 Networking Technologies 3 Units

Formerly: CIS 63

Prerequisite: CISC 310, CISC 320, and CISC 355 with grades of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides a comprehensive survey of local and wide area networks, technologies, protocols, and connectivity. Topics covered include network topologies, the Open Systems Interconnection seven-layer model for communication, communication protocols and standards, access methods, and data translation and transmission equipment and media. This course is intended to prepare students for the COMPTIA N+ industry certification.

CISN 305 Managing a Windows Network Environment 3 Units

Prerequisite: CISN 302 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with knowledge and skills necessary to administer, manage, support, and troubleshoot information systems that incorporate medium to large Windows networks. The student will learn to create, configure, and manage file, print, and web resources; manage data storage; create shared resources and configure access rights; monitor and manage network security; configure and troubleshoot TCP/IP on servers and client computes; monitor and troubleshoot server health and performance; deploy software by using Group Policy; and implement and troubleshoot Terminal Services.

CISN 306 Advanced Network Systems Administration 3 Units

Formerly: CISN 106, CIS 82

Prerequisite: CISN 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the administration of a server in an enterprise network. Topics include designing an enterprise network, optimizing network servers for enterprise-related roles, managing enterprise users, groups and resources, planning and implementing connectivity to other networks within the enterprise; server and network optimization, and troubleshooting techniques at the enterprise level. This course covers material required for the Microsoft Networking examinations.

CISN 307 Windows Active Directory Services 3 Units

Prerequisite: CISN 300 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours lecture, 27 hours laboratory
This course covers installing, configuring, and administering Microsoft Windows Active Directory services. It also focuses on implementing Group Policy and understanding the Group Policy tasks required to manage users and computers. Group Policies are used to configure and manage the user desktop environment, configure and manage software, and implement and manage security settings. Installation and configuration of Domain Naming System (DNS) and Windows Internet Naming System (WINS) is covered, as well as publishing, replication and the backup of the directory services data base. This course may be taken up to four times on different Windows operating system versions.

CISN 308 Internetworking with TCP/IP 3 Units

Formerly: CISN 108, CIS 84

Prerequisite: CISN 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the implementation of the TCP/IP protocol suite in an enterprise network. Topics include installing, configuring and testing TCP/IP; planning and implementing sub-networks; managing IP address assignments and IP routing; installing and configuring DNS; TCP/IP network printing; troubleshooting the network with TCP/IP utilities; and planning for IPv6.

CISN 315 Advanced Network Administration 2 Units

Formerly: CIS 61

Prerequisite: CISN 303 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
This course covers topics necessary for an experienced network administrator to monitor, maintain, and improve the performance

of an existing Local Area Network (LAN). This course covers part of the material required for software manufacturer's certification. This course may be twice for credit on a different operating system.

CISN 320 Designing Windows Directory Services 3 Units

Prerequisite: CISN 306 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and skills necessary to design a Microsoft Windows directory services infrastructure in an enterprise network. Topics include: implementing group policies, Windows Internet Naming System (WINS), Domain Name Systems (DNS), Dynamic Host Configuration Protocol (DHCP), Routing and Remote Access (RRAS) and server placement in a network infrastructure. Also included are the design of an Active Directory structure for an enterprise; the development a plan to secure and delegate administrative authority over Active Directory; the design of a site topology for a multi-domain organization; and the design of an Active Directory replication plan based on the site topology design.

CISN 322 Designing a Secure Windows Network 3 Units

Prerequisite: CISN 306 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks using Microsoft Windows technologies. Emphasis is on secure access to local network users, to remote users and remote offices, and between private and public networks. Topics include: group policy, site topology, Virtual Private Networks (VPNs), e-commerce, printer security, and security for non-Microsoft clients.

CISN 324 Designing Windows Networking Services 3 Units

Prerequisite: CISN 308 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and skills necessary to create a networking services infrastructure design that supports the required network applications. Each module provides a solution based on the needs of the organization. The course includes designing and planning for Dynamic Host Configuration Protocol (DHCP), Domain Name Service (DNS) Internet Protocol (IP) address configuration, routing solutions using Open Shortest Path First (OSFP) and Internet Group Management Protocol (IGMP), Internet connectivity design using Network Address Translation, Internet connectivity using Microsoft Proxy Server 3.0, remote access connectivity; and a management strategy for networking services.

CISN 370 Web Server Administration 3 Units

Formerly: CISN 170, CIS 86

Prerequisite: CISN 300 or 303 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers Web server installation and administration for the Internet and Intranets. Topics include the installation, configuration, management and tuning of Web servers; WWW and FTP services; security features; on-line transaction processing; and Web site optimization.

CISN 374 Messaging Server Administration 3 Units

Formerly: CIS 87

Prerequisite: CISN 302 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the installation and administration of messaging servers. Topics include the installation, configuration, management, and tuning of mail and messaging services on both servers and clients, mail access protocols, security issues and Internet connectivity.

CISN 378 Database Administration for Microsoft SQL Server 3 Units

Prerequisite: CISN 302 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and technical skills required to install, configure, administer, and troubleshoot the client/server database management system of Microsoft SQL Server. The students will also learn to manage files and databases; choose and configure a login security method; plan and implement database permissions; secure SQL Server in an enterprise network; perform and automate administrative tasks; create custom administrative tools; monitor and optimize SQL Server performance; and replicate data from one SQL Server to another.

Computer Info Science - Programming (CISP)

CISP 301 Algorithm Design and Implementation 4 Units

Prerequisite: CISC 310 with a grade of "C" or better or equivalent.
Advisory: At least one year of high school algebra.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides an introduction to the analysis, design, and implementation of software solutions to business-related problems. An overview of the following topics will also be included: main and cache memory, data representation, two's-complement addition and subtraction, instruction processing by the central processing unit, computer programming languages, and the software development process.

CISP 310 Assembly Language Programming for Microcomputers 4 Units

Formerly: CIS 35A

Prerequisite: CISP 301 and 360 with grades of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This is an introductory course in assembly language for the Intel family of microprocessors. Students will write and debug programs that use control structures, subprocedures, bit operations, interrupts, arrays, and recursion. Upon completion of the course, students will have a much better understanding of the internal operations of computers.

CISP 320 COBOL Programming 4 Units

Formerly: CIS 36A

Prerequisite: CISP 301 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to the COBOL programming language. Course elements include top-down design and structured programming methods. Laboratory assignments cover a variety of input/output techniques including data validation, arithmetic operations, output editing, array processing, control-break concepts, and the creation and update of sequential files.

CISP 342 Structured Programming with FORTRAN 4 Units

Formerly: CIS 33A

Prerequisite: CISP 301 with a grade of "C" or better.
Advisory: MATH 120 with a grade of "C" or better.
General Education: AA/AS Area D2 and Math Competency
Acceptable for credit: UC (CISP 342 or ENGR 405, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
FORTRAN (formula translation) is an automatic coding system that allows the engineer, scientist or technician to utilize a computer for problem solving. Structured programming will be emphasized, dividing big jobs into smaller tasks to make them easier to solve. The student will design, code, test, and debug many FORTRAN programs.

CISP 350 Database Programming 3 Units

Formerly: CIS 37

Prerequisite: CISA 323 with a grade of "C" or better.
Advisory: proficiency in any high-level programming language
General Education: AA/AS Area D2
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory course to programming in database. The topics include analysis and design, modular programming, screen displays and menus, and multiple databases. This course may be taken three times for credit on a different software package or version.

CISP 360 Introduction to Structured Programming 4 Units

Formerly: CIS 32A

Prerequisite: CISP 301 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to structured programming and objects. Topics include program design, use of variables and constants, operators, control structures, functions, standard libraries, pointers, arrays, and input/output (including file I/O).

CISP 363 Structured Programming with BASIC 2 Units

Prerequisite: CISP 301 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
36 hours Lecture, 18 hours Laboratory
This course is an introduction to structured programming with Beginner's All-purpose Symbolic Instruction Code (BASIC). Topics include program design, use of variables, flow control, constants, libraries, arrays, functions, arguments, and input/output.

CISP 370 Beginning Visual Basic 4 Units

Formerly: CIS 38

Prerequisite: CISP 301 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to object oriented/event driven programming in a Windows environment. Topics include buttons, boxes, graphics, data handling, error handling, control, and form handling. This course will enable students to understand object oriented programming concepts such as form, methods, projects, and modules and to design useful Windows layouts.

CISP 371 Intermediate Visual Basic 4 Units

Prerequisite: CISP 370 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course covers the study of intermediate and advanced object oriented programming using Visual BASIC. The student will learn about multiple document interface (MDI), advanced error handling, creating classes, collections and client-server architecture. Topics include: data access, application programming interface (API), and application configuration management.

CISP 400 Object Oriented Programming with C++ 4 Units

Formerly: CIS 32B

Prerequisite: CISP 360 with a grade of "C" or better.
Advisory: CISC 323 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to object oriented programming using C++. Topics include differences between C and C++ including declarations, constants, operators, function calling by value and reference, strict type checking; function members and overload-

ing; inheritance and multiple inheritance; derived classes, protected members, and virtual functions.

CISP 401 Object Oriented Programming with Java 4 Units

Prerequisite: CISP 360 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to Object Oriented Programming using the Java language. The student will learn how to design and implement object oriented applications. Topics will include: objects, classes, UML, function overloading, inheritance, static and dynamic class relationships, polymorphism, components, event driven programming, associations, testing and debugging.

CISP 430 Data Structures 4 Units

Formerly: CIS 40

Prerequisite: CISP 400 or CISP 401 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to the design and implementation of complex data structures used in large computer applications. List, stack, queue and tree data structures are implemented using pointers and recursion. Topics include software requirements specification, algorithm analysis, debugging and testing, searching and sorting techniques, and object oriented programming methodology.

CISP 440 Discrete Structures for Computer Science 3 Units

Formerly: CIS 44

Prerequisite: CISP 430 and MATH 370 with grades of "C" or better.
General Education: AA/AS Area D2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces the essential discrete structures used in computer science with emphasis on their applications. Topics to be covered include: elementary formal logic and set theory, elementary combinatorics, recursive programming and algorithm analysis, digital logic and switching and combinatorial circuits, and computer arithmetic. Computer programming assignments will be included.

CISP 452 Introduction to Systems Programming 3 Units

Formerly: CIS 45

Prerequisite: CISP 430 with a grade of "C" or better.
Advisory: C structured programming language experience.
General Education: AA/AS Area D2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to Systems Programming concepts using the C language. The course covers features of the C language commonly used in Systems Programming. Topics include C preprocessor macros, file systems, shells and shell script programming, make files and Source Code Control Systems (SCCS) and program relocation and linking concepts. Knowledge of the C language and data structures is required.

CISP 457 Computer Systems Analysis and Design 3 Units

Formerly: CIS 51

Prerequisite: CISP 301 with a grade of "C" or better; and any one of the following: CISP 320, CISP 321, CISP 342, CISP 360, CISP 370, CISP 371, CISP 400, or CISP 401 with grade of "C" or better.
General Education: AA/AS Area D2.
Acceptable for credit: CSU
54 hours Lecture; 18 hours Laboratory
This course covers the methods used to analyze, design, and implement a computer system that meets client business needs. The methodology emphasizes the skills needed by a system analyst throughout the steps of a system development life cycle. These steps include system feasibility, analysis, design, implementation, documentation, and evaluation.

Computer Information Science - Security (CISS)

CISS 300 Introduction to Information Systems Security 1 Unit

Prerequisite: None
General Education: AA/AS Area D2
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course provides an introduction to network-based and Internet-based security applications and standards. Topics include cryptography, security protocols, network security applications, encryption, hash functions, digital signatures, viruses and key exchange. Some experience and/or courses in networking is recommended prior to taking this course.

CISS 301 Ethical Hacking 2 Units

Prerequisite: None
Advisory: CISC 320 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course introduces basic security concepts, principles and "best practices" and explores ways in which security for a standalone PC and a network-connected PC can be compromised. It provides ways in which the security of a PC can be checked and evaluated. Principles of ethical hacking are discussed. Internal and external security threats are discussed, including viruses, worms, trojans, scripts and other malicious e-mail content. Network vulnerabilities, common exploits and basic countermeasures are discussed.

CISS 310 Network Security Fundamentals 3 Units

Prerequisite: None
Advisory: CISN 140 or CISN 300 or CISN 304 with a grade of "C" or better
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
Organizations today are linking their information systems across enterprise-wide networks and Virtual Private Networks, as well as increasing their exposure to the Internet. Each connection magnifies the vulnerability to unauthorized access. This course provides the fundamental knowledge needed to analyze risks to the system and implement a workable security policy that protects information assets from potential intrusion, damage or theft. Students will learn which countermeasures to deploy to thwart potential attacks. This course will also prepare students for CompTIA's Security+ Exam.

CISS 320 Implementing Network Security and Counter Measures 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
With the growing reliance on e-commerce, network-based services, and the Internet, organizations are faced with an ever-increasing responsibility to protect their systems from attack. Internet Detection Systems (IDS) are the latest and most powerful tools for identifying and responding to network- and host-based intrusions. Students will research network and operating system exploits and deploy the proper countermeasures. Virtual Private Networks (VPN) are countermeasures which provide a significant cost savings by allowing remote users and multiple sites to securely communicate across a public network. A thorough understanding of the many standards and technologies available is essential for a successful VPN implementation. In this course, students will gain the knowledge required to evaluate, implement, and manage secure remote-access technologies.

CISS 330 Implementing Internet Security and Firewalls 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
With the increased connectivity to the Internet and the wide availability of automated cracking tools, organizations can no longer simply rely on operating system security to protect their valuable corporate data. The firewall has emerged as a primary tool used to prevent unauthorized access. Students will learn how to allow access to key services while maintaining your organization's security, as well as how to implement firewall-to-firewall Virtual Private Networks (VPNs). This course will aid students in preparing for Check Point Security's "Check Point Certified Security Administrator" (CCSA) certification.

CISS 341 Implementing Windows Operating System Security 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
As organizations increasingly come to rely on Windows-based networks, it is essential that system administrators have a complete understanding of the security models integral to Windows Server and Workstation. This course will provide in-depth explanations of operating system security features as well as step-by-step configuration guides for proper operating system configuration. It also provides the knowledge and skills students will need to know in order to maintain the integrity, authenticity, availability and privacy of data.

CISS 342 Implementing Linux Operating System Security 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
The Linux family of operating systems is prized by developers and other IT professionals for their flexibility and openness. Vulnerabilities in standard configurations, however, can make Linux systems susceptible to security threats. For the many organizations that depend upon Linux systems, protection against intrusion is an absolute requirement. This course provides the knowledge and skills needed to establish security for the Linux platform. It will present in-depth explanations of operating system security features as well as step-by-step configuration guides for proper operating system configuration. This course also will cover the knowledge and skills students will need to maintain the integrity, authenticity, availability and privacy of data.

CISS 350 Disaster Recovery 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course presents methods to identify vulnerabilities and implement appropriate countermeasures to prevent and mitigate failure risks for the business enterprise. This course covers but is not limited to an understanding of what disaster recovery is, development of a disaster recovery plan and development and implementation of Policies and Procedures.

CISS 355 Information Systems Security and Assurance Principles 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture
This course provides the foundation for understanding the key issues associated with protecting information assets; determining the levels of protection and response to security incidents; and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. The purpose of the course is to provide the student with an overview of the field of Information Systems Security and Assurance. Students will be exposed to a wide-spectrum of Security activities, methods, methodologies, and procedures. Coverage will include

inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses and an overview of the Information Systems Security Planning and Staffing functions.

CISS 360 Computer Forensics and Investigation 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course is an introduction to the methods used to properly conduct a computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered but are not limited to an overview of computer forensics as a profession; the computer investigation process; understanding operating systems boot processes and disk structures; data acquisition and analysis; technical writing; and a review of familiar computer forensics tools.

Computer Info Science - Web (CISW)

CISW 304 Cascading Style Sheets 2 Units

Prerequisite: CISW 300 or 320 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours lecture, 27 hours laboratory
This course continues the study of technical aspects of standards-based Web design for experienced students and Web professionals. Topics include the separation of content from presentation, dynamic user interaction and designing for alternative devices, using Cascading Style Sheets (CSS) in combination with Extensible Hypertext Markup Language (XHTML).

CISW 320 Introduction to Web Site Development 3 Units

Prerequisite: CISC 320 or 323 with a grade of "C" or better; or equivalent experience.
Advisory: CISC 305 or CISC 306 with a grade of "C" or better
Acceptable for credit: CSU
54 hours lecture
This course is an introduction to the technical aspects of Web site development for experienced students and Web professionals. Topics include creating Web pages with markup languages, including XHTML, cascading style sheets, an introduction to scripting, the use of images and other media on the Web, interactive tools like forms and image maps, file management for the Web, and uploading files via File Transfer Protocol (FTP) to a Web server. Emphasis will be on the study and implementation of current World Wide Web Consortium (W3C) standards and a structured approach to Web site development in which students will identify the information dissemination needs of a client, and then develop and implement an appropriate Web solution. Students who have completed CISW 300 within the last three years may not receive credit for this course.

CISW 321 Web Site Development using Dreamweaver 3 Units

Prerequisite: CISW 300, CISW 320, or GCOM 361 with a grade of "C" or better; or equivalent experience
Acceptable for credit: CSU
36 hours lecture, 54 hours laboratory
This course covers the use of Dreamweaver, a visual Web-authoring tool, to develop and implement Web sites. The topics covered include: creating Web pages that contain text, images, links, tables, frames, forms, Cascading Style Sheets and image maps, enhancing Web pages with Flash text, Flash buttons and the built-in scripting language, developing effective Web site structures, using Web site management tools, Web site documentation, making global updates to a Web site, and extending Dreamweaver. Students will work individually and as a member of a team to plan, implement, test, and evaluate Web sites.

CISW 325 Intermediate Web Site Development 4 Units

Prerequisite: CISW 320 with a grade of "C" or better; or the ability to create Websites by hand coding using XHTML and cascading stylesheets.
Advisory: CISP 301 with a grade of "C" or better.
Acceptable for credit: CSU
72 hours lecture
This course introduces the systematic development of interactive Web sites to experienced students and Web professionals. Topics include dynamic HTML, form validation and processing, client-side programming with JavaScript, server-side programming with hypertext pre-processor (PHP), CGI scripting with Perl, and database-driven Web development.

CISW 350 Imaging for the Web 1 Unit

Prerequisite: CISC 306, CISW 300, or CISW 320 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course is an introduction to designing graphics for the Web, not intended for Graphic Communication students. Industry standard graphic software is used to create original graphics as well as to manipulate found imagery. Topics include developing graphic elements for a Web site using a visual theme, creating buttons and intuitive navigational elements, making background textures and images, understanding Web file formats, scanning, and simple animation. This course may be taken twice for credit on a different platform or graphics software package. Not open to students who have completed GCOM 360 or CISW 351.

CISW 370 Designing Accessible Web Sites 1 Unit

Prerequisite: CISW 300, CISW 320, or GCOM 361 with a grade of "C" or better; or equivalent experience designing Web pages with Extensible Hypertext Markup Language (XHTML).
Acceptable for credit: CSU
18 hours Lecture
This course provides an overview of the methods that are used to design Web sites for people with disabilities. Current legal requirements for accessible Web sites, especially the Americans with Disabilities Act (ADA) are emphasized.

CISW 400 Client-side Web Scripting 4 Units

Prerequisite: CISW 300 or 320 with a grade of "C" or better.
Advisory: Completion of CISC 310 and CISP 301 with grades of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course emphasizes the creation of dynamic and interactive Web sites using a client-side scripting language such as Javascript. Topics include the Document Object Model that defines structured Web pages, core features of the client-side scripting language, event handling, control of windows and frames, functions, and form validation. This course may be taken twice with a different client-side Web scripting language.

CISW 405 ActionScript for Flash 3 Units

Prerequisite: GCOM 363 with a grade of "C" or better.
Advisory: CISP 301 with a grade of "C" or better or any high level programming language.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture
This course introduces Macromedia Flash users to programming with ActionScript, including using ActionScript to animate, process data, create dynamic content, and manipulate components. The course emphasizes the object-oriented capabilities of Macromedia Flash, and teaches students how to use ActionScript objects, methods, events, properties, and functions, with an eye toward ActionScript best practices.

CISW 410 Middleware Web Scripting 4 Units

Prerequisite: CISW 320 or CISW 300 and CISP 301 or one programming course or any programming experience.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course emphasizes the creation of interactive Web sites using a middleware Web scripting environment such as PHP, ASP, or ASP.NET. Topics include core features of the middleware Web scripting language, embedding server commands in HTML pages, control structures, functions, arrays, form validations, cookies, environmental variables, email applications, the .NET environment, and database driven Web applications. This course may be taken three times in a different middleware Web scripting environment.

CISW 411 Middleware Scripting Database Web Applications 2 Units

Prerequisite: CISW 320 and CISW 410 with grades of "C" or better.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course includes interactive database applications for the Web using a database and middleware scripting language. Topics include organizing data, developing tables for databases, creating middleware scripts that add, delete, sort, edit and merge the data in the database. Maintaining database integrity, and using DHTML or other code to streamline certain client side functions such as form validation are covered. Students may bring their own real Web applications to use as a project. This course may be taken two times for credit using different languages or projects.

CISW 420 Server-side Web Scripting 4 Units

Prerequisite: CISW 320 or CISW 300 with a grade of "C" or better.
Advisory: CISW 325 with a grade of "C" or better or CISP 301 with a grade of "C" or better or experience writing programs in any high level programming language.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course emphasizes the creation of interactive Web sites using a server-side scripting language such as Perl or Java. Topics include core features of the server-side scripting language, control structures, functions, arrays, form validations, regular expressions, cookies, environmental variables, email applications, and database-driven Web applications. This course may be taken twice with a different server-side scripting language.

CISW 440 XML: Introduction to Extensible Markup Language 2 Units

Prerequisite: CISW 320 or CISW 300 with a grade of "C" or better.
Advisory: Either CISA 320, CISA 323, or CISP 350 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours lecture
XML is a universal method for representing information that is especially well suited for distribution over the Internet. This course will address the most fundamental XML questions - what XML is, why it is needed, and how it can be used. Students will learn the most current, practical XML technologies available at the present time. This course may be taken two times on different versions of XML.

CISW 470 Web Projects (Same as GCOM 370) 3 Units

Prerequisite: Completion of one of the following: CISW 300, CISW 320, CISW 325, CISW 400, CISW 410, CISW 420, GCOM 361, GCOM 362, GCOM 363, or equivalent with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course focuses on Web project management on a real-world Website. Emphasis will be placed on the project development life cycle including design specification, research, production, modification, and presentation. Web projects utilized in the class will be multifaceted, approaching the complexity that individuals would be expected to encounter in the Web development industry. (Students may bring their own Web Projects to class.) This course may be taken two times with different projects.

Cosmetology

Associate in Science Degree

Career Certificate

Art and Science of Nail Technology, Certificate of Completion

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Career Opportunities

Cosmetologists are employed in every community. Many are self-employed, while others are employed in large and small establishments. It is a lucrative field for both men and women. A cosmetologist may specialize and become a platform stylist, color technician, or shop manager.

Recommended High School Preparation

Art, physiology, chemistry, English and math.

Program Information

The course of study for Cosmetology and Nail Technology (manicuring) is approved by the Board of Barbering and Cosmetology and follows criteria designed to train students to become cosmetologists and manicurists and, at the same time, complete the requirements for a Sacramento City College Career Certificate. The instruction requires 1600 hours of training for cosmetology and 400 hours of training for nail technology (manicuring) and completion of a minimum number of operations in order to be eligible to take the California State Examination for licensure. The cosmetology training covers all of the required operations such as permanent waving, manicuring, hair styling and cutting, hair coloring, and facial work. Nail Technology (manicuring) training covers all of the required operations such as manicuring, pedicuring, all phases of nail enhancements, and nail art and design. Cosmetology and Nail Technology related subjects are taught in a lecture class as part of the curriculum.

Program Costs

Program Costs: Approximately $750 is needed at the beginning of the first semester for students in the Cosmetology Program for personal supplies and materials (textbooks, uniforms, and student-kits, etc.). Students must be able to purchase the required kits and uniforms on the first day of COSM 110 and COSM 111 (failure to meet this requirement will result in a student being dropped from the program for that semester). Approximately $500 is needed at the beginning of the semester in the Nail Technology Program for personal supplies and materials (textbooks, uniforms, and student kits, etc.). Students must be able to purchase the required kits and uniforms on the first day of COSM 150 (failure to meet this requirement will result in a student being dropped from the program for that semester). Kits and textbooks and some uniform pieces are available at the College Store. If students anticipate that these costs may create a financial burden, they should consult the Financial Aid Office for possible assistance prior to enrollment.

Admission to Program

A. In COSM 100, students will be introduced through lecture to the field of Cosmetology and Nail Technology (manicuring). COSM 100 is designed to give students a clear understanding of the subject matter and procedures of Cosmetology and Nail Technology, along with the policies of the SCC Cosmetology department. In addition, students will also receive training in customer relations, professionalism, and working with other students.

   All students planning on entering any Cosmetology Department course designed for licensure must attend COSM 100, which must be satisfactorily completed with a "C" grade or better with perfect attendance in the semester prior to enrollment in either COSM 110 and COSM 111, or COSM 150. A COSM 100 certificate will be issued upon successful completion and must be presented the first day of class in COSM 110 and 111 or COSM 150.

B. Transfer students from another Cosmetology or Nail Technology program (public or private) must take COSM 100 and complete this class with a "C" grade or better with perfect attendance and will then be required to enroll in COSM 110 and COSM 111 or COSM 150. After completing the first semester, COSM 110 and 111, the cosmetology student will be evaluated by department staff

CELEBRATING 90 YEARS

for determination of advanced course placement. The Nail Technology student will enroll in COSM 151 to complete the hours and requirements necessary to sit for the California State Examination for manicuring.

Cosmetology

Associate in Science Degree
Career Certificate

Enrollment Eligibility:	**Units**
COSM 100, Introduction to Cosmetology	2
First full semester:	
COSM 110, Related Technical Knowledge of the Basic Fundamental Skills	5
COSM 111, Basic Foundation of Practical Skills	10
Second full semester:	
COSM 120, Intermediate Certificate Course Theory	5
COSM 121, Intermediate Certificate Course - Laboratory	10
Third full semester:	
COSM 130, Advanced-Certificate Course - Theory	5
COSM 131, Advanced-Certificate Course - Laboratory	10
Total Units Required	**47**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better. The Cosmetology Career Certificate is covered in three semesters requiring attendance in Cosmetology classes for 32.5 hours a week.

Art & Science of Nail Technology

Certificate of Completion, Level 3

This is a one-semester program offering beginning, intermediate, and advanced training in manicuring. At the end of the program, the student will have learned the Art and Science of Nail Technology. The theoretical and operational requirements will enable them to pass the California Examination in Manicuring. The program will include: professional image, basic procedures for manicuring (hand and arm massage), basic procedures for pedicure (foot and leg massage), acrylic nails, nail tip and wraps, gel nails (light and no-light cured), airbrushing, nail art and design, and nail salon business.

Required Course	**Units**
COSM 150, Art and Science of Nail Technology	16
Total Units Required	**16**

Students who fail to complete the necessary hours for the State Board of California Barbering and Cosmetology programs licensure while taking COSM 150 (due to excessive absences) may take COSM 151 for supplemental Nail Technology practical hours.

COSM 100 is a required prerequisite course for COSM 150 and is offered as a two-week session course two times per year. See your counselor or the Schedule of Classes for more information.

Certificate of Completion
The certificate may be obtained by completion of the required course with a grade of "C" or better.

Cosmetology (COSM)

COSM 100 Introduction to Cosmetology 2 Units
Formerly: COSM 53

Prerequisite: None
40 hours Lecture
Students will receive training in customer relations and professional behavior and appearance. The course also includes an introduction to the basic skills in Cosmetology course work. A final grade of "C" or better is necessary to move on to COSM 110 and 150.

COSM 110 Related Technical Knowledge of the Basic Fundamental Skills 5 Units
Formerly: COSM 54

Prerequisite: Completion of COSM 100 with a grade of "C" or better.
Corequisite: Concurrent enrollment in COSM 111.
90 hours Lecture
This course provides instruction of technical and theoretical knowledge which directly relates to the basic skills of all practiced operational phases of Cosmetology. The course material includes Bacteriology, Decontamination, Hairstyling, Haircutting, Hair Structure, Massage, Nail Structure, Nail Diseases and Disorders, PH Scale, Permanent Waving, Color Wheel, Hair Coloring, and Hair Lightening.

COSM 111 Basic Foundation of Practical Skills 10 Units
Formerly: COSM 55

Prerequisite: Completion of COSM 100 with a grade of "C" or better.
Corequisite: Concurrent enrollment in COSM 110. 540 hours Laboratory
This course provides instruction for those persons interested in becoming licensed cosmetologists. Individual instruction is given in practical application of the basic skills learned in COSM 110. Emphasis is placed on basic hair coloring, permanent waving, hair styling, hair cutting, manicuring, facials, and make-up. Also covered in the course are: transferring of basic training to intermediate and advanced levels in hairstyling, shaping, thermal curling, and hair straightening.

COSM 120 Intermediate Certificate Course Theory 5 Units
Formerly: COSM 63

Prerequisite: COSM 110 and 111 with a minimum grade of "C" or better.
Corequisite: Concurrent enrollment in COSM 121.
Advisory: Concurrent enrollment in COSM 121, as the lab.
90 hours Lecture
This course provides instruction in theoretical knowledge which relates to intermediate and advanced levels in all phases of Cosmetology (anatomy, hair styling, cold waving, manicuring, facials, hair coloring, scalp treatment reconditioning, hair cutting, thermal pressing and curling). This course may not be repeated for credit.

COSM 121 Intermediate Certificate Course - Laboratory 10 Units
Formerly: COSM 64

Prerequisite: COSM 110 and 111 with grades of "C" or better, but students must take and pass COSM 100 with a grade of "C" or better and not exceed 500 hours when transferring from any cosmetology school.
Corequisite: Concurrent enrollment in COSM 120.
540 hours Laboratory
This course provides instruction in technical knowledge which relates to intermediate and advanced levels in all phases of cosmetology (anatomy, hair styling, cold waving, manicuring, facials, hair coloring, scalp treatment reconditioning, hair cutting, thermal pressing and curling). This course may not be repeated for credit.

COSM 130 Advanced-Certificate Course - Theory 5 Units
Formerly: COSM 73

Prerequisite: COSM 120 and 121 with grades of "C" or better. Five hundred hours from an accredited school of Cosmetology and successful completion of a practical and written entrance examination process will be considered the equivalent of COSM 120 and 121, but students must take and pass COSM 100 if transferring from any cosmetology school.
Corequisite: Concurrent enrollment in COSM 131.
90 hours Lecture
This course encompasses all areas of the theoretical portion of cosmetology which directly relates to the Board Examination. It is designed for the senior student who will enter the business world at the end of the semester. Special emphasis is placed on professionalism, salon management, the Cosmetology Act, and State Board rules and regulations. Transfer students must schedule the entry assessment for placement with the Cosmetology staff.

COSM 131 Advanced-Certificate Course - Laboratory 10 Units
Formerly: COSM 74

Prerequisite: COSM 120 and 121 with grades of "C" or better, but students must take and pass COSM 100 with a grade of "C" or better and not exceed 500 hours when transferring from any cosmetology school.
Corequisite: Concurrent enrollment in COSM 130.
540 hours Laboratory
This course encompasses all areas of the practical portion of cosmetology which directly relates to the Board Examination. It is designed for the senior student who will enter the business world at the end of the semester. Special emphasis is placed on professionalism, salon management, the Cosmetology Act, and State Board rules and regulations.

COSM 140 Supplemental Training 1-5 Units
Formerly: COSM 92

Prerequisite: COSM 131 with a grade of "C" or better.
270 hours Laboratory
The course provides training in current trends in hair styling, advanced hair coloring, and cold waving. It also satisfies the requirements for out-of-state candidates who apply for a California Cosmetology license.

COSM 141 Skills Building for Cosmetology **3 Units**

Formerly: COSM 90

Prerequisite: COSM 110 and 111 with grades of "C" or better.
162 hours Laboratory
This course provides practice in the following salon services: Wet hairstyling; Thermal hairstyling; Press and Curl; Perm waving; Chemical Straightening; Hair Cutting; Hair Coloring and Bleaching; Scalp & Hair Treatment; Manual Electrical and Chemical facials; Brow Arch & Wax; Make Up; Manicuring and Pedicuring and Nail Wraps, Tips and Repairs. This course also develops problem solving techniques in the services that require chemical treatment.

COSM 150 Art and Science of Nail Technology **16 Units**

Formerly: COSM 60

Prerequisite: Completion of COSM 100 with a grade of "C" or better.
198 hours Lecture; 270 hours Laboratory
This is a one-semester course offering beginning, intermediate and advanced training in manicuring. At the end of the course, the student will have learned the Art and Science of Nail Technology. The theoretical and operational requirements will enable them to pass the California Examination in Manicuring. The course will include professional image, basic procedures for manicuring (hand and arm massage), basic procedures for pedicure (foot and leg message), acrylic nails, nail tip and wraps, gel nails (light and no-light cured), airbrushing, nail art and design, and nail salon business.

COSM 151 Art and Science of Nail Technology-Supplemental Hours **5 Units**

Formerly: COSM 61

Prerequisite: COSM 150 with a grade of "C" or better.
60 hours Lecture; 90 hours Laboratory
COSM 151 is the sequential course of COSM 150. This is the optional course for supplemental hours in COSM 150 that have not been completed in one semester. This course will include a review of: professional image, basic procedures for manicuring (hand and arm massage), basic procedures for pedicure (foot and leg massage), acrylic nails, nail tip and wraps, gel nails (light and no-light cured), airbrushing, nail art and design, nail salon business. Completion of either COSM 150 or 150 plus 151 (depending on hours of attendance) enables the student to take the State Board Examination for licensure.

COSM 160 Skin Care **1 Unit**

Formerly: COSM 81

Prerequisite: None
13.5 hours Lecture; 13.5 hours Laboratory
This course covers the basics of skin care, facials, product availability and critique of those products now on the market. This class will address the demanding needs of industry. It is for entry level only and not recommended for licensed Estheticians.

COSM 294 Topics in Cosmetology **.5-4 Units**

Formerly: COSM 80

Prerequisite: None
18 hours Lecture; 54 hours Laboratory
This course reviews the latest Cosmetology State exam testing subjects and procedures that are revised at least twice a year. This course may be taken three times for credit provided there is no duplication of topics.

Dental Assisting DAST

Associate in Science Degree

Career Certificate (One year plus one Summer)

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

This program prepares the student for employment as a dental assistant. The dental assistant works with the dentist in providing patient treatment, including restorations, x-rays and preventive services. Employment opportunities are excellent, not only in private dental offices, but also in public and private hospitals; clinics and laboratories; dental schools; dental supply houses; and in the armed forces.

Program Information

The dental assisting program, 27 units, is a full-time day program to which students are admitted in August of each year. The curriculum is approved by the Commission on Dental Accreditation of the American Dental Association and leads to a Career Certificate in Dental Assisting. After successful completion of the curriculum the student is eligible to take the National Board Examination and upon passing becomes a Certified Dental Assistant. This evidence of competence is recognized throughout the United States. In addition, graduates will be able to apply for and take the Dental Board of California examination for state licensure as a Registered Dental Assistant. In addition to normal student expenses (for textbooks, etc.), the Dental Assisting Program requires an expenditure of approximately $1,800 during the one-year program for uniforms and special supplies. If this creates a hardship, check with the Financial Aid Office for possible assistance before entering the program.

The program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653 or at 211 East Chicago Avenue, Chicago, Illinois 60611.

Program Eligibility

To be eligible for the dental assisting program, the applicant must satisfy one of the following:

1. Successful completion of an English Reading class which is equal to or greater than ENGRD 11 or ESLR 310 OR
2. Eligibility to enroll in ENGRD 110 or ESLR 320.

Proof of eligibility can be obtained by either (1) submitting an official college transcript indicating the successful completion of an appropriate level English Reading class or (2) submitting the results of assessment testing which verifies placement in an appropriate level English Reading class.

High school or college grade point averages are not used to establish eligibility for the dental assisting program.

Enrollment Process

1. Send application and proof of eligibility directly to the Dental Health Office.

2. Applications will be accepted after January 1. To be eligible, applicants must have both their application and proof of eligibility in to the Dental Health Office. Eligible applicants will be selected for enrollment based on the date the completed application and proof of eligibility are received in the Dental Health Office.

   After the class has filled, other eligible applicants will be placed on an alternate list according to the date their application and proof of eligibility arrived in the Dental Health Office. As positions become available, eligible applicants will be taken off this list in chronological order. Eligible applicants may be selected for enrollment up to the first day of class in the Fall.

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Required Program	Units
DAST 101, Biodental Science	2
DAST 104, Anatomy and Morphology	3
DAST 102, Chairside Assisting I	6
DAST 107, Dental Radiology I	2
DAST 116, Practice Management for Dental Assistant	2
DAST 111, Dental Nutrition and Prevention	1
DAST 115, Coronal Polishing and Pit and Fissure Sealant Placement	2
AH 104, Aging and its Implications for Health Care	0.5
DAST 112, Chairside Assisting II	2.5
DAST 117, Dental Radiology II	1
DAST 119, Clinical Experience I	3
DAST 129, Clinical Experience II (Summer Session)	2
Total Units Required	**27**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

General education requirements may be completed either before or after completing the sequence of dental assisting courses listed above.

Dental Assisting (DAST)

DAST 101 Biodental Science 2 Units

Formerly: DAST 50

Prerequisite: Enrollment in the Dental Assisting Program.
36 hours Lecture
Biodental Science deals with microbiology and asepsis, dental pathology, sterilization, pharmacology, medical emergencies, and hazardous materials in the dental practice.

DAST 102 Chairside Assisting I 6 Units

Formerly: DAST 57

Prerequisite: Enrollment in the Dental Assisting Program.
72 hours Lecture; 108 hours Laboratory
Dental Assisting 102 is an introduction to chairside dental assisting and the principles of four-handed dentistry, including materials and instrumentation. In this course, emphasis is given to step-by-step procedures and the function, use, and care of dental equipment and the dental operatory. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DAST 104 Anatomy and Morphology 3 Units

Formerly: DAST 51

Prerequisite: Enrollment in the Dental Assisting Program.
54 hours Lecture
Dental Assisting 104 is the study of dental morphology including the form, function, and location of the hard and soft structures of the mouth. In addition the course also studies the anatomy and physiology of the head and neck as it relates to the practice of dentistry.

DAST 107 Dental Radiology I 2 Units

Formerly: DAST 58

Prerequisite: Enrollment in the Dental Assisting Program.
18 hours Lecture; 54 hours Laboratory
Dental Radiology I is an introduction to the basic principles of dental radiology including theory and techniques, operation of the x-ray machine, safety practices, darkroom procedures, and exposing, processing, mounting, and evaluation of dental films.

DAST 111 Dental Nutrition and Prevention 1 Unit

Formerly: DAST 65

Prerequisite: Completion of DAST 101 with a grade of "C" or better.
12 hours Lecture; 36 hours Laboratory
Dental Assisting 111 is the study of nutrition from both a whole body concept and its interrelated effects on the dental environment. The course will integrate these concepts into preventive dentistry concepts and the role of the Dental Assistant in community/public health involvement.

DAST 112 Chairside Assisting II 2.5 Units

Formerly: DAST 67

Prerequisite: DAST 102 with a grade of "C" or better.
24 hours Lecture; 72 hours Laboratory
The course entails the study of practical applications of advanced four-handed dental techniques. Instruction in California's "Expanded Duties" is a part of the course.

DAST 115 Coronal Polishing and Pit and Fissure Sealant Placement 2 Units

Formerly: DAST 66

Prerequisite: DAST 102 with a grade of "C" or better.
108 hours Laboratory
DAST 115 is the practical application of coronal polishing techniques in the clinical setting. The course also includes the theory and practical application of pit and fissure sealants.

DAST 116 Practice Management for the Dental Assistant 2 Units

Formerly: DAST 60

Prerequisite: Enrollment in the Dental Assisting Program.
36 hours Lecture
Practice Management for the Dental Assistant includes the principles of dental office management including: secretarial procedures, record keeping, dental histories, financial arrangements, bookkeeping and insurance procedures, patient communications, patient psychology, and job finding skills.

DAST 117 Dental Radiology II 1 Unit

Formerly: DAST 68

Prerequisite: DAST 107 with a grade of "C" or better.
12 hours Lecture; 36 hours Laboratory
Dental Radiology II covers advanced principles of dental radiography including special techniques and clinical application of procedures involved in exposing, processing, evaluating, and interpreting dental radiographs.

DAST 119 Clinical Experience I 3 Units

Formerly: DAST 69

Prerequisite: Completion of DAST 102 with a grade of "C" or better.
240 hours TBA
This course involves performance of dental assisting duties in an assigned dental clinic or private office during a full-time (40 hours/week) clinical affiliation of six weeks. Students will meet for six hours of seminar. This course is graded on a credit/no-credit basis.

DAST 129 Clinical Experience II 2 Units

Formerly: DAST 79

Prerequisite: Successful completion of DAST 112 with a grade of "C" or better.
144 hours Laboratory
This course involves performance of basic dental assisting duties as well as expanded duties in an assigned dental clinic or private office during 144 hours of clinical affiliation to be arranged. Students will meet for three hours of seminar. This course is graded on a credit/no-credit basis.

Dental Hygiene DHYG

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

This program prepares the student for employment as a dental hygienist. The registered dental hygienist is a licensed, professional, oral health educator and clinician who works under the direction and supervision of a licensed dentist to provide preventive and therapeutic services for the control of oral diseases. Dental hygienists aid individuals and groups in attaining and maintaining optimum oral and general health through provision of services such as assessment of medical and dental conditions; oral hygiene education; oral prophylaxis - the removal of plaque, calculus, and stains from the teeth; and, application of preventive agents such as fluoride and sealants. The dental hygienist may be employed in dental offices, schools, health care facilities, public health agencies, industry and educational institutions.

Recommended Preparation

High school and college preparatory courses including algebra, biology, chemistry and physiology are recommended.

Program Information

The Dental Hygiene Program consists of 35-39.5 units of prerequisite courses in addition to 43.5 units of dental hygiene courses. The student must obtain an Associate of Science Degree in Dental Hygiene and therefore must satisfy any additional requirements for that degree. The program is accredited by the Commission on Dental Accreditation of the American Dental Association. The Commission is a specialized accrediting body recognized by the United States Department of Education and can be contacted at 211 East Chicago Avenue, Chicago, Illinois 60611. Program graduates are eligible to take the National Board Dental Hygiene Examination, which is administered by the Joint Commission on National Dental Examinations, the California RDH Examination, and other state and regional licensing examinations.

In addition to normal student expenses (tuition, books, etc.), the Dental Hygiene Program requires an expenditure of approximately $4,500 during the two-year program for uniforms, instruments, and special supplies. Approximately $3,000 will be needed at the beginning of the first semester. If this creates a financial burden, students should consult the Financial Aid Office for possible assistance several months before entering the program.

Enrollment Requirements

Enrollment in the Dental Hygiene program is based on satisfactory completion of prerequisite courses with grades of "C" or better and submission of an application and official transcripts to the Dental Health Office. Prerequisite courses include:

BIOL 430 and 431, Anatomy & Physiology; BIOL 440, General Microbiology; CHEM 305 & CHEM 306, Introduction to Chemistry, with a cumulative minimum GPA of 3.0.

FCS 340, Nutrition; PSYC 300, General Principles; SOC 300, Introductory Sociology; COMM 301, Introduction to Public Speaking; ENGWR 300, College Composition and DHYG 100, Introduction to Dental Hygiene, with a cumulative minimum GPA of 2.5.

Completion of ENGRD 110, Efficient Reading, or eligibility for ENGRD 310, College Analytical and Speed Reading, as determined by the Sacramento City College reading assessment process for all applicants who do not have an AA degree or higher.

Enrollment Process

Applications for enrollment and official transcripts verifying completion of prerequisite courses must arrive at the Dental Health Office no later than April 1st. Applications and/or transcripts that do not meet this requirement will not be considered.

Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not selected for program enrollment will be considered alternates.

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Required Program

Prerequisite Courses	**Units**
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
CHEM 305, Introduction to Chemistry	5
CHEM 306, Introduction to Chemistry	5
BIOL 440, General Microbiology	4
FCS 340, Nutrition	3
PSYC 300, General Principles	3
COMM 301, Introduction to Public Speaking	3
SOC 300, Introductory Sociology	3
ENGWR 300, College Composition	3
DHYG 100, Introduction to Dental Hygiene	0.5

First Semester (Fall)	**Units**
DHYG 101, Introduction to Clinical Dental Hygiene	4
DHYG 107, Dental Morphology	1.5
DHYG 104, Patient Education and Nutrition	2
DHYG 103, Oral Histology and Embryology	1
DHYG 109, Infection Control and Hazardous Materials	0.5

Second Semester (Spring)	**Units**
DHYG 117, Dental Radiology	3
DHYG 111, Clinical Dental Hygiene I	4
DHYG 112, Periodontics I	2
DHYG 113, Embryology- Head and Neck Anatomy	2

Summer Session	**Units**
DHYG 121, Clinical Dental Hygiene II	2
DHYG 127, Dental Materials	2

Third Semester (Fall)	**Units**
DHYG 134, Community Dental Health	2
DHYG 139, Pharmacology	2
DHYG 131, Clinical Dental Hygiene III	4
DHYG 132, Periodontics II	1
DHYG 138, Oral Pathology	2
DHYG 135, Clinical Seminar	1

Fourth Semester (Spring)	**Units**
DHYG 149, Ethics, Jurisprudence and Dental Hygiene Practice	2
DHYG 145, Clinical Seminar II	1
DHYG 141, Clinical Dental Hygiene IV	4
AH 104, Aging and its Implications for Health Care	0.5
Total Units Required	**83**

Graduation Requirements
Additional courses are necessary to meet Graduation Requirements. These may include Social Sciences, Ethnic Multicultural Studies, Humanities, Language/Rationality-Communication and Analytical Thinking; Living Skills, and Competency Requirements.

Students must consult with a counselor to determine their individual educational plan.

Associate in Science Degree (A.S.)
The Associate in Science Degree in Dental Hygiene must be obtained for graduation from the program.

NOTE: A grade of "C" or better in all Dental Hygiene courses is required for progression in the Dental Hygiene program and for recommendation to apply for the Dental Hygiene licensing examination.

Dental Hygiene (DHYG)

DHYG 100 Introduction to Dental Hygiene .5 Unit

Formerly: DHYG 51

Prerequisite: None
9 hours Lecture
This course is an introduction to the practice of Dental Hygiene. Topics include vital signs, dental terminology, infection control, study strategies, and the expectations and concerns of the dental hygiene professional.

DHYG 101 Introduction to Clinical Dental Hygiene 4 Units

Formerly: DHYG 52

Prerequisite: Enrollment in the Dental Hygiene Program and completion of BIOL 430, 431, and 440; CHEM 305 and 306 with grades of "C" or better, and with a cumulative GPA of 3.0 or better; completion of DHYG 100, FCS 340, ENGWR 300, COMM 301, PSYC 300, and SOC 300, with grades of "C" or better and a cumulative GPA of 2.5 or better; completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA degree or higher.
36 hours Lecture; 108 hours Laboratory
This course provides an introduction to dental hygiene concepts and procedures. Emphasis is placed on the assessment phase of patient care as well as on the theory and performance of basic dental hygiene instrumentation procedures.

DHYG 103 Oral Histology and Embryology 1 Unit

Formerly: DHYG 55

Prerequisite: Enrollment in the Dental Hygiene Program.
18 hours Lecture
Oral Histology is the study of microscopic tissues and structures of the oral cavity. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DHYG 104 Patient Education and Nutrition 2 Units

Formerly: DHYG 54

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
This course studies the principles and practices of preventing and controlling dental disease with emphasis on nutrition, plaque control, motivation, and chairside patient education. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc

DHYG 107 Dental Morphology 1.5 Units

Formerly: DHYG 53

Prerequisite: Enrollment in the Dental Hygiene Program.
18 hours Lecture; 27 hours Laboratory
Dental Morphology is the study of the formation, function and structure of the teeth and their supporting structures.

DHYG 109 Infection Control and Hazardous Materials .5 Unit

Formerly: DHYG 56

Prerequisite: Enrollment in the Dental Hygiene Program.
9 hours Lecture
This course emphasizes the legal and ethical aspects of infectious disease transmission and its prevention. Included is the necessary information to meet OSHA and CDC requirements for education on infection control and hazardous material management.

DHYG 111 Clinical Dental Hygiene I 4 Units

Formerly: DHYG 62

Prerequisite: Completion of DHYG 101 with a grade of "C" or better.
36 hours Lecture; 108 hours Laboratory
Dental Hygiene 111 is the clinical practice of oral prophylaxis through practical applications of procedures learned in Dental Hygiene 101. Students demonstrate various procedures and techniques on each other before applying them to patients, children over five and adults. Techniques in patient education will be practiced. The lecture includes the rationale for more difficult traditional dental hygiene skills.

DHYG 112 Periodontics I 2 Units

Formerly: DHYG 63

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
This is a course in periodontics which includes the identification of the normal periodontium and recognition of deviations from normal, the etiology and principles of periodontal disease, examination procedures, treatment, and preventive measures.

DHYG 113 Embryology-Head and Neck Anatomy 2 Units

Formerly: DHYG 65

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
This is a course of oral anatomy designed for the study of the head and neck from the standpoint of structures or group of structures in relation to their function.

DHYG 117 Dental Radiology 3 Units

Formerly: DHYG 61

Prerequisite: Completion of DHYG 101 with a grade of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course teaches the principles of dental radiology, including laboratory experience and clinical application of procedures involved in exposing, processing, interpreting, and evaluating dental radiographs. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DHYG 121 Clinical Dental Hygiene II 2 Units
Formerly: DHYG 72

Prerequisite: Completion of DHYG 111 with a grade of "C" or better.
96 hours Laboratory
Dental Hygiene 121 is the continued clinical experience in performing oral prophylaxis with wider variety of clinical cases, as well as case studies with the use of oral roentgenograms. Assignments in clinical x-ray will be provided.

DHYG 127 Dental Materials 2 Units
Formerly: DHYG 74

Prerequisite: Completion of DHYG 111 with a grade of "C" or better.
18 hours Lecture; 54 hours Laboratory
Dental Hygiene 127 is the survey of dental materials and techniques in using these materials in all phases of dentistry. This course is graded on a Credit/No Credit basis.

DHYG 131 Clinical Dental Hygiene III 4 Units
Formerly: DHYG 82

Prerequisite: Completion of DHYG 121 with a grade of "C" or better.
216 hours Laboratory
This course provides continued clinical experience in the provision of comprehensive dental hygiene services to a wide variety of patients with different medical and dental needs. The course focuses on progressive development of the student's skills in areas of dental hygiene assessment, diagnosis, treatment planning, preventive and therapeutic services, evaluation and time management.

DHYG 132 Periodontics II 1 Unit
Formerly: DHYG 83

Prerequisite: Completion of DHYG 112 with a grade of "C" or better.
54 hours Laboratory
In Dental Hygiene 132, students will develop clinical skills applicable in the treatment of patients with advanced periodontal disease. The course includes demonstrations and performance of tasks on appropriate laboratory materials. It also includes working with a periodontist in the clinical setting using expanded functions skills, including administration of local anesthesia and soft tissue curettage.

DHYG 134 Community Dental Health 2 Units
Formerly: DHYG 80

Prerequisite: Completion of DHYG 104 with a grade of "C" or better.
18 hours Lecture; 54 hours Laboratory
Community Dental Health is the study of the philosophy and background of community dental health with emphasis on program planning, implementation, and evaluation. This course includes practical experience implementing programs in various community settings. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DHYG 135 Clinic Seminar 1 Unit
Formerly: DHYG 85

Prerequisite: Completion of DHYG 121 with a grade of "C" or better.
18 hours Lecture
This seminar integrates more advanced concepts and skills into the clinical experiences of the third semester dental hygiene student. Emphasis is placed on development and implementation of comprehensive patient treatment plans, identification of resources to support evidence-based patient care, and critical thinking skills.

DHYG 138 Oral Pathology 2 Units
Formerly: DHYG 84

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
Dental Hygiene 138 is the introduction to general Pathology with a special emphasis on Oral Pathology.

DHYG 139 Pharmacology 2 Units
Formerly: DHYG 81

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
Pharmacology is the classification and study of drugs according to origin, physical and chemical properties, therapeutic effect and values, particularly of drugs utilized in dentistry.

DHYG 141 Clinical Dental Hygiene IV 4 Units
Formerly: DHYG 92

Prerequisite: Completion of DHYG 131 with a grade of "C" or better.
216 hours Laboratory
Dental Hygiene 141 is the continued clinical experience in performing oral prophylaxis, oral roentgenographic surveys, charting cases and patient education. The clinical experience is related to all aspects of dentistry.

DHYG 145 Clinic Seminar II 1 Unit
Formerly: DHYG 91

Prerequisite: Completion of DHYG 131 with a grade of "C" or better.
54 hours Laboratory
This course provides instruction in nitrous oxide/oxygen analgesia and caries detection. Students develop their critical thinking skills through the discussion of problems and special interest cases encountered in clinical experience. Extra time outside the normal school schedule is required for students to participate in activities such as field trips, conventions or community projects.

DHYG 149 Ethics, Jurisprudence and Dental Hygiene Practice 2 Units
Formerly: DHYG 90

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
Ethics, Jurisprudence and Dental Hygiene Practice is the study of the fundamental factors necessary to be employed and practice within the ethical and legal framework of the California State Dental Practice Act and the code of ethics of the American Dental Hygienists' Association. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

Early Childhood Education E C E

Associate in Arts Degree

Career Certificate

Certificate of Completion

Department of Family and Consumer Science

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Associate Teacher, Certificate of Completion
Teacher, Career Certificate
Master Teacher, Degree and Career Certificate
Site Supervisor, Degree and Career Certificate
Early Childhood, Degree and Career Certificate
Infant Care and Education, Degree
Infant Care and Education Teacher, Career Certificate
School-Age Care and Education Teacher, Career Certificate
Family Child Care, Certificate of Completion
School-Age Assistant Teacher, Certificate of Completion
School-Age Associate Teacher, Certificate of Completion
School-Age Teacher, Career Certificate
School-Age Master Teacher, Career Certificate
School-Age Site Supervisor, Degree

Career Opportunities

This program provides preparation for employment in child development programs, public and private preschools, and children's centers. The program meets the course requirements for teachers and directors in private child development centers licensed by the California State Department of Social Services, and the Children's Center Instructional Permit issued by the Teacher Credentialing Commission for teachers in public preschools and children's centers. Upon completion of the Associate in Arts with a major in Early Childhood Education, plus the requirements for a Site Supervisor Certificate, students would be eligible for the Site Supervisor Child Development Permit. The Infant Care Option provides more focused training for those wishing to work with infants. The School Age Child Care program is designed for those desiring to work with older children. The Associate Teacher, Teacher, Master Teacher, and Site Supervisor Certificates are aligned with the Child Development Permits issued by California's Commission on Teacher Credentialing (January 1997). California law requires that teachers in state-funded child care and development centers possess a Child Development Permit. The School-Age Assistant, Associate, Teacher, Master Teacher, and Site Supervisor are aligned with the Child Development Permit Matrix. In addition, Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

The following certificates and degrees (Associate Teacher, Teacher, Master Teacher, and Site Supervisor) are aligned with the Child Development Permit matrix issued by the Commission on Teacher Credentialing.

CELEBRATING 90 YEARS

Associate Teacher

Certificate of Completion, Level 3

This program provides preparation for employment in early care and education settings. The courses in the program offer a well-rounded foundation in theory and practice for early childhood educators. The program meets the course requirements for staff at the teacher level in private early care and education settings licensed by the California State Department of Social Services. The Associate Teacher Certificate course work is aligned with the Child Development Associate Teacher Permit issued by California's Commission on Teacher Credentialing.

Career Opportunities: Students with the Associate Teacher Certificate are eligible for employment as teachers in private early care and education programs. With the addition of 50 days of three plus hours per day of experience, they are eligible for the Associate Teacher Permit which makes them eligible for positions in state funded programs. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 312 Child Development (3) or FCS 312 Child Development (3)	3
ECE 314 The Child, the Family and the Community (3) or FCS 314 The Child, the Family and the Community (3) or SOC 312 The Child, the Family and the Community (3)	3
A minimum of 3 units from the following:	3
ECE 320 Principles and Practices in Early Childhood Education (4) or ECE 300 Introduction to Early Childhood Education (3)	
A minimum of 3 units from the following:	3
ECE 192 Organizing the Environment for Teaching and Learning: Planning Activities, Routines, Physical Setting (1)	
ECE 342 Constructive Math and Science in Early Childhood Education (3)	
ECE 343 Language and Literacy Development in Early Childhood (3)	
ECE 344 Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360 Art in Early Childhood (3)	
ECE 362 Music for Children (3)	
Total Units Required	**12**

Certificate of Completion

The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better.

Teacher

Career Certificate

This program provides preparation for employment in early care and education settings. The program meets the course requirements for staff at the teacher level in private early care and education settings licensed by the California State Department of Social Services. The Teacher Certificate course work is aligned with the Child Development Teacher Permit issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

The requirements for the Teacher Career Certificate include completion of the required 24 units plus 16 graduation level general education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Career Certificate and have 175 days of teaching experience within the last four years may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

Career Opportunities: Students with the Teacher Certificate are eligible for employment at teachers in private early care and education programs. With the addition of 175 days of three plus hours per day of experience within the last four years they are eligible for the Teacher Permit which makes them eligible for positions in state funded programs.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 300, Introduction to Early Childhood Education	3
A minimum of 3 units from the following:	3
ECE 322, Promoting Children's Social Competence (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 344, Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360, Art in Early Childhood (3)	
ECE 362, Music for Children (3)	
ECE 415, Children's Health, Safety and Nutrition (3) or FCS 346, Children's Health, Safety, and Nutrition (3)	
ECE 320, Principles and Practices in Early Childhood Education	4
ECE 321, Advanced Principles and Practices in Early Childhood Education	4
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 430, Culture and Diversity in Early Childhood Education	3
Total Units Required	**24**

Career Certificate
The requirements for the Teacher Career Certificate include completion of the required 24 units plus 16 graduation level general education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Career Certificate and have 175 days of teaching experience within the last four years may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

Master Teacher

Associate in Arts Degree
Career Certificate

This program provides preparation for employment in early care and education settings. The program meets the course requirements for staff at the teacher level in private early care and education settings licensed by the California State Department of Social Services. The Master Teacher A.A. Degree is aligned with the Child Development Master Teacher Permit issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

Students who complete the Master Teacher A.A. Degree and have 350 days of teaching experience within the last four years may be eligible to apply for the Child Development Master Teacher Permit issued by the Commission on Teacher Credentialing.

Career Opportunities: Students with the Master Teacher A.A. Degree are eligible for employment as teachers in private early care and education programs. With the addition of 350 days of three plus hours per day of experience within the last four years they are eligible for the Master Teacher Permit which makes them eligible for positions in state funded programs. They are also eligible to apply to the California Early Childhood Mentor Teacher Program to become mentors for less experienced staff. They would also be prepared for employment in other settings that require knowledge of child development and best practices for programs serving young children.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 312, Child Development (3)	3
or FCS 312, Child Development (3)	
ECE 314, The Child, the Family and the Community (3)	3
or FCS 314, The Child, the Family and the Community (3)	
or SOC 312, The Child, the Family and the Community (3)	
ECE 300, Introduction to Early Childhood Education	3
ECE 410, Health and Safety in Child Care Settings (1)	1
or HEED 330, Health and Safety in Child Care Settings (1)	
A minimum of 6 units from the following:	6
ECE 190, The Art of Storytelling and Expressive Listening (2)	
ECE 322, Promoting Children's Social Competence (3)	
ECE 323, The Effective Parent-Teacher (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 344, Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360, Art in Early Childhood (3)	
ECE 362, Music for Children (3)	
ECE 415, Children's Health, Safety and Nutrition (Same as FCS 346) (3)	
ECE 320, Principles and Practices in Early Childhood Education	4
ECE 321, Advanced Principles and Practices in Early Childhood Education	4
ECE 430, Culture and Diversity in Early Childhood Education	3
ECE 424, Adult Supervision: Mentoring in a Collaborative Learning Setting	2

Specializations for Master Teacher

Infant Care Specialization (6 units)	
ECE 330, Infant Development	3
ECE 331, Education and Care of Infants in Group Settings	3
School-Age Care Specialization (6 units)	
ECE 356, Programs for the School-Age Child	3
ECE 358, Activities for the Child (Six to Fourteen Years)	3
Art with Children Specialization (6 units)	
ECE 360, Art in Early Childhood	3
ARTH 300, Introduction to Art, or ART 320, Design: Fundamentals	3
Music with Children Specialization (6 units)	
ECE 362, Music for Children	3
MUFHL 331, World Music: Africa, Europe, and the Middle East	3
Children's Health, Safety and Nutrition (6 units)	
ECE 415, Children's Health, Safety and Nutrition Specialization	3
FCS 340, Nutrition	3
Children with Exceptional Needs Specialization (6 units)	
ECE 400, Children with Exceptional Needs, or ECE 404, Children with Special Needs	3
ECE 498, Work Experience in Early Childhood Education with field placement in special education program that integrates children with special needs	3-4
Total Units Required	**33 - 36**

Suggested Electives
ECE 192, 305, 323, 330, 331, 350, 356, 358, 415, 420, 422, 450, 498; ENGLT 370.

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completing the required program, plus general education requirements, plus electives sufficient to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The requirements for the Master Teacher Career Certificate include completion of the required units plus 16 graduation level general education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Master Teacher Career Certificate and have 350 days of teaching experience within the last four years may be eligible to apply for the Child Development Master Teacher Permit issued by the Commission on Teacher Credentialing.

Site Supervisor

Associate in Arts Degree
Career Certificate

This program provides preparation for employment in early care and education settings. The program meets the course requirements for directors in private early care and education settings licensed by the California State Department of Social Services. The A.A. degree course work is aligned with the Child Development Permits issued by the Teacher Credentialing Commission for staff in state funded early care and education programs. California law requires that staff in state funded early care and education settings possess a Child Development Permit.

The A.A. degree meets the educational requirements of the Site Supervisor Permit. To be eligible for the Site Supervisor Permit students must also have 350 days of three plus hours per day withing 4 years including at least 100 days of supervising adults

In addition, Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

Career Opportunities: Students receiving an Site Supervisor A.A. degree are eligible for employment at many levels in the diverse early care and education field. They may serve as teachers or as directors in a privately owned settings. With the Site Supervisor Permit from the California Commission on Teacher Credentialing they would be eligible to supervise a single site of a state funded program. They would also be prepared for employment in other settings that require knowledge of child development and best practices for programs.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 300, Introduction to Early Childhood Education	3
A minimum of 3 units from the following:	3
ECE 322, Promoting Children's Social Competence (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 344, Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360, Art in Early Childhood (3)	
ECE 362, Music for Children (3)	
ECE 415, Children's Health, Safety and Nutrition (Same as FCS 346) (3)	
ECE 320, Principles and Practices in Early Childhood Education	4
ECE 321, Advanced Principles and Practices in Early Childhood Education	4
ECE 400, Children with Exceptional Needs (3) or ECE 404, Children with Special Needs (3) or ECE 402, Infants with Atypical Development (3)	3
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 420, Administration of Child Development Centers	3
ECE 422, Advanced Coordination and Supervision of Child Development Programs	3
ECE 424, Adult Supervision: Mentoring in a Collaborative Learning Setting	2
ECE 430 Culture and Diversity in Early Childhood Education	3
Total Units Required	**35**

Suggested Electives
ECE 192, 305, 323, 330, 331, 350, 356, 358, 450, 498; ENGLT 370.

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completing the required program, plus general education requirements, plus electives sufficient to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Early Childhood

Associate in Arts Degree
Career Certificate

This program provides preparation for employment in early care and education settings. The program meets the course requirements for staff and directors (with administration courses as electives) in private early care and education settings licensed by the California State Department of Social Services. The A.A. degree course work is aligned with the Child Development Permits issued by the Teacher Credentialing Commission for staff in state funded early care and education programs. California law requires that staff in state funded early care and education settings possess a Child Development Permit.

The A.A. degree meets the requirements of the Teacher Permit under alternative qualifications option two.

Career Opportunities: Students receiving an A.A. degree in Early Childhood are eligible for employment at many levels in the diverse early care and education field. They may serve as teachers or with the appropriate administration classes as a director in a privately owned setting. They would also be prepared for employment in other settings that require knowledge of child development and best practices for programs.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 312, Child Development (3)	
or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3	
or FCS 314, The Child, the Family and the Community (3)	
or SOC 312, The Child, the Family and the Community (3)	3
ECE 300, Introduction to Early Childhood Education	3
A minimum of 3 units from the following:	3
ECE 322, Promoting Children's Social Competence (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 344, Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360, Art in Early Childhood (3)	
ECE 362, Music for Children (3)	
ECE 415, Children's Health, Safety and Nutrition (Same as FCS 346) (3)	
ECE 320, Principles and Practices in Early Childhood Education	4
ECE 321, Advanced Principles and Practices in Early Childhood Education	4
ECE 400, Children with Exceptional Needs (3)	
or ECE 404, Children with Special Needs (3)	
or ECE 402, Infants with Atypical Development (3)	3
ECE 430, Culture and Diversity in Early Childhood Education	3
ECE 410, Health and Safety in Child Care Settings (1)	
or HEED 330, Health and Safety in Child Care Settings (1)	1
Total Units Required	**27**

Suggested Electives
ECE 192, 305, 323, 330, 331, 350, 356, 358, 420, 422, 424, 450, 498; ENGLT 370.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completing general education requirements, plus the required program, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Infant Care and Education

Associate in Arts Degree

This program provides preparation for employment in early care and education settings. The Infant Care and Education A.A. degree emphasizes knowledge and skills for working with children birth to age three. The program meets the course requirements for staff at the teacher level working with infants in private early care and education settings licensed by the California State Department of Social Services. The Teacher Certificate course work is aligned with the Child Development Teacher Permit issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

Career Opportunities: Students with the Infant Care and Education A.A. degree are eligible for employment as teachers with infants in private early care and education programs. With the appropriate administration units as electives they may be eligible to direct a private center that serves infants. The Infant Care and Education A.A. Degree makes the student eligible for the Teacher Permit under alternative qualifications, option 2.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	Units
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 330, Infant Development (3)	3
ECE 331, Education and Care of Infants in Group Settings	3
ECE 300, Introduction to Early Childhood Education	3
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 404, Children with Special Needs (3) or ECE 402, Infants with Atypical Development (3) or ECE 400, Children with Exceptional Needs (3)	3
ECE 415, Children's Health, Safety and Nutrition (3) or FCS 346, Children's Health, Safety and Nutrition (3)	3
ECE 430, Culture and Diversity in Early Childhood Education	3
A minimum of 3 units from the following:	3
ECE 322, Promoting Children's Social Competence (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 344, Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360, Art in Early Childhood (3)	
ECE 362, Music for Children (3)	
ECE 415, Children's Health, Safety and Nutrition (3)	
Total Units Required	**28**

Suggested Electives
ECE 320, 321, 323, 342, 343, 344, 360, 362, 402, 415, 420, 422, 424, 498; ENGLT 370.

Associate of Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Infant Care and Education Teacher

Career Certificate

This program provides preparation for employment in early care and education settings. The program meets the course requirements for staff at the teacher level working with infants in private early care and education settings licensed by the California State Department of Social Services. The Teacher Certificate course work is aligned with the Child Development Teacher Permit issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

The requirements for the Teacher Permit include completion of 24 ECE units plus 16 graduation level general education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students with 175 days of teaching experience within the last four years may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

Career Opportunities: Students with the Teacher Certificate are eligible for employment as teachers with infants in private early care and education programs. Upon completion of the general education units and with 175 days of three plus hours per day of teaching experience within the last four years they are eligible for the Teacher Permit which makes them eligible for positions in state funded programs.

Enrollment Limitations: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	Units
ECE 312, Child Development (3) or FCS 312,Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 330, Infant Development (3)	3
ECE 331, Education and Care of Infants in Group Settings	3
ECE 300, Introduction to Early Childhood Education	3
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 404, Children with Special Needs (3) or ECE 402, Infants with Atypical Development (3) or ECE 400, Children with Exceptional Needs (3)	3
ECE 415, Children's Health, Safety and Nutrition (3) or FCS 346, Children's Health, Safety and Nutrition (3)	3
ECE 430, Culture and Diversity in Early Childhood Education	3
A minimum of 3 units from the following:	3
ECE 322, Promoting Children's Social Competence (3)	
ECE 342 Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 344, Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360, Art in Early Childhood (3)	
ECE 362, Music for Children (3)	
ECE 415, Children's Health, Safety and Nutrition (3)	
Total Units Required	**28**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

School-Age Care and Education

Associate in Arts Degree
Career Certificate

This program provides preparation for employment in school age care and education settings. The program meets the course requirements for staff and directors(with administration courses as electives), in private care and education settings licensed by the California State Department of Social Services. The A.A. degree course work is aligned with the Child Development Permits issued by the Teacher Credentialing Commission for staff in state funded early care and education programs. California law requires that staff in state funded early care and education settings possess a Child Development Permit.

The School-Age A.A. degree meets the requirments of the Teacher Permit with the School-Age emphasis under alternative qualifications option two.

In addition, Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

Career Opportunities: Students receiving an A.A. degree in School-Age Care and Education are eligible for employment at many levels in the diverse school-age and early care and education field. They may serve as teachers or with the appropriate administration classes as directors in privately owned settings. They would also be prepared for employment in other settings that require knowledge of child development and best practices for programs. The School-Age A.A. Degree offers opportunities that would be excellent preparation for transfer into a K-8 teacher preparation program.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 356, Programs for the School-Age Child	3
ECE 358, Activities for the School-Age Child (Six to Fourteen Years)	3
ECE 320, Principles and Practices in Early Childhood Education	4
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 450, Science Activities for School-Age Children	3
ECE 430, Culture and Diversity in Early Childhood Education	3
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 400, Children with Exceptional Needs (3)	3
A minimum of 3 units from the following:	3
ECE 322, Promoting Children's Social Competence (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 415, Children's Health, Safety and Nutrition (Same as FCS 346) (3)	
Total Units Required	**32**

Suggested Electives
ECE 190, 192, 300, 305, 322, 323, 330, 342, 343, 344, 360, 362, 404, 415, 420, 422, 424, 498; ENGLT 370.

Associate of Arts Degree (A.A.)
The Associate in Arts Degree may by obtained by completing general education requirements, plus the required program, plus electives sufficient to meet a 60-unit total. See SCC graduation requirements.

School-Age Care and Education Teacher

Career Certificate

This program provides preparation for employment in school-age care and education settings. The program meets the course requirements for staff at the teacher level in private school-age care and education settings licensed by the California State Department of Social Services. The School-Age Teacher Certificate course work is aligned with the Child Development Teacher Permit with the School-Age emphasis issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

The requirements for the Child Development School-Age Teacher Permit include completion of the required 24 units of ECE plus 16 graduation level general education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Career Certificate and have 175 days of teaching experience within the last four years may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

In addition Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

Career Opportunities: Students with the School-Age Teacher Certificate are eligible for employment at teachers in private school-age care and education programs. With the addition of 175 days of three plus hours per day of experience within the last four years they are eligible for the Teacher Permit with the School-Age emphasis which makes them eligible for positions in state funded programs. The School-Age Certificate offers opportunities that would be excellent preparation for transfer into a K-12 teacher preparation program or a career in recreation programs for children.

Enrollment Limitations: *To be eligible for enrollment in the program, the student must meet the following criteria:*

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 356, Programs for the School-Age Child	3
ECE 358, Activities for the School-Age Child (Six to Fourteen Years)	3
ECE 450, Science Activities for School-Age Children	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 430, Culture and Diversity in Early Childhood Education	3
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
A minimum of 3 units from the following:	3
ECE 320, Principles and Practices in Early Childhood Education (4)	
ECE 321, Advanced Principles and Practices in Early Childhood Education (4)	
ECE 322, Promoting Children's Social Competence (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 360, Art in Early Childhood (3)	
ECE 400, Children with Exceptional Needs (3)	
ECE 415, Children's Health, Safety and Nutrition (Same as FCS 346) (3)	
Total Units Required	**25**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Family Child Care
Certificate of Completion, Level 3

This program prepares students to operate early care and education programs within their own homes. The courses listed exceed the course requirements for the Department of Social Services, Community Care Licensing. Students may wish to learn more about specific age groups by enrolling in additional courses focusing on different ages.

Career Opportunities: Students completing this certificate will have the required units to open and operate a family child care business in their homes. Community Care Licensing requires additional background checks, home inspection, etc. before a provider may become licensed. These courses are also acceptable for work in licensed centers and count towards the Child Development Permit.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Courses	**Units**
ECE 305, Introduction to Family Child Care	1
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 300, Introduction to Early Childhood Education (3) or ECE 498, Work Experience in Early Childhood Education (1 -4)	1-4
ECE 320, Principles and Practices in Early Childhood Education (4) or ECE 331, Education and Care of Infants in Group Settings (3)	3-4
Total Units Required	**12-16**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better.

There is no degree in Family Child Care at this time.

The School-Age Assistant, Associate, Teacher, Master Teacher, and Site Supervisor certificates are aligned with the Child Development Permits with a School-Age Emphasis issued by California's Commission on Teacher Credentialing [effective mid-2001].

The following certificates and degrees (School-Age Assistant Teacher, School-Age Associate Teacher, School-Age Teacher, School-Age Master Teacher, and School-Age Site Supervisor are aligned with the School-Age Child Development Permit matrix issued by Commission on Teacher Credentialing.

School-Age Assistant Teacher

Certificate of Completion, Level 2

This program provides preparation for employment in school age care and education settings. The program meets the course requirements for staff at the assistant level in private early care and education settings licensed by the California State Department of Social Services. The School Age Assistant Teacher Certificate course work is aligned with the Child Development School Age Assistant Teacher Permit issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

Career Opportunities: Students with the School Age Assistant Certificate are eligible for employment as assistants or aides in private early care and education programs. They may be eligible for the School Age Assistant Teacher Permit which makes them eligible for positions in state funded programs.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Courses	**Units**
ECE 312, Child Development or FCS 312, Child Development	3
ECE 358, Activities for the School-Age Child (Six to Fourteen Years)	3
ECE 410, Health & Safety in Child Care Settings	1
Total Units Required	**7**

Students who complete the required courses for the School-Age Assistant Teacher Certificate of Completion may be eligible to apply for the Child Development Assistant Teacher Permit issued by the Commission on Teacher Credentialing.

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better.

School-Age Associate Teacher

Certificate of Completion, Level 2

This program provides preparation for employment in school-age care and education settings. The program meets the course requirements for staff at the teacher level in private school-age care and education settings licensed by the California State Department of Social Services. The School-Age Associate Teacher Certificate course work is aligned with the Child Development Associate Teacher Permit with the School-Age emphasis issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

In addition Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

Career Opportunities: Students with the School Age Associate Certificate are eligible for employment as school-age teachers in private school-age care and education programs. With the addition of 50 days of three plus hours per day of teaching experience within two years they are eligible for the School-Age Associate Teacher Permit which makes them eligible for positions in state funded programs. The program offers coursework that is valuable preparation for a career teaching in elementary education.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Courses	**Units**
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
A minimum of 6 units from the following:	6
ECE 356, Programs for the School-Age Child (3)	
ECE 358, Activities for the School-Age Child (Six to Fourteen Years) (3)	
ECE 350, Introduction to Elementary Teaching with Field Experience (3)	
Total Units Required	**12**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better.

Students who complete the required courses for the School-Age Associate Teacher Certificate of Completion and have the required career experience may be eligible to apply for the Child Development Associate Teacher Permit issued by the Commission on Teacher Credentialing.

School-Age Teacher
Career Certificate

Career Opportunities: Individuals with the School-Age Teacher certificate will be qualified to work in school-age before-school, after-school, and other school-age child care centers that are state funded. This certificate, in addition to the experience requirements,will authorize individuals to apply for a permit that will allow them to provide instruction and supervise Assistant and Associate Teachers in programs serving youths up to age fourteen.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	**Units**
ECE 400, Children with Exceptional Needs	3
ECE 356, Programs for the School-Age Child	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 410, Health & Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 358, Activities for the School-Age Child (Six to Fourteen Years)	3
ECE 430, Culture & Diversity in Early Childhood Education	3
ECE 498, Work Experience in Early Childhood Education (School-age)*	1-4
FCS 312, Child Development	3
FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 450, Science Activities for School-Age Children	3
Total Units Required	**26-29**

*75 hours paid or 60 hours volunteer experience per unit plus 18 hours lecture. Placement must be in a school-age program.

Career Certificate
Completion of the 25 units shown plus 16 General Education units, including one course from each of the following: English, Humanities/Fine Arts, Social Science, and Mathematics or Science. Students who complete the Career Certificate and have the required career experience may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

School-Age Master Teacher
Career Certificate

This program provides preparation for employment in school-age care and education settings. The program meets the course requirements for staff at the teacher level in private early care and education settings licensed by the California State Department of Social Services. The School-Age Master Teacher Certificate course work is aligned with the Child Development Master Teacher Permit with the School-Age emphasis issued by California's Commission on Teacher Credentialing. California law requires that teachers in state funded early care and education settings possess a Child Development Permit.

The requirements for the School-Age Master Teacher Permit include completion of the required units plus 16 graduation level general education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Master Teacher Career Certificate and have 350 days of teaching experience within the last four years may be eligible to apply for the Child Development Master Teacher Permit with School-Age emphasis issued by the Commission on Teacher Credentialing.

In addition Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

Career Opportunities: Students with the School-Age Master Teacher Certificate are eligible for employment as teachers in private early care and education programs. With the addition of 350 days of three plus hours per day of experience within the last four years they are eligible for the Master Teacher Permit with the School-Age emphasis which makes them eligible for positions in state funded programs. They are also eligible to apply to the California Early Childhood Mentor Teacher Program to become mentors for less experienced staff.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program **Units**

ECE 312, Child Development (3)
or FCS 312, Child Development (3) 3
ECE 314, The Child, the Family and the Community (3)
or FCS 314, The Child, the Family and the Community (3)
or SOC 312, The Child, the Family and the Community (3) ... 3
ECE 356, Programs for the School-Age Child..... 3
ECE 358, Activities for the School-Age Child
(Six to Fourteen Years)..... 3
ECE 450, Science Activities for School-Age Children 3
ECE 410, Health and Safety in Child Care Settings (1)
or HEED 330, Health and Safety in Child Care Settings (1).....
ECE 320, Principles and Practices in Early Childhood Education .. 4
ECE 350, Introduction to Elementary Teaching with
Field Experience..... 3
ECE 430, Culture and Diversity in Early Childhood Education..... 3
ECE 424, Adult Supervision: Mentoring in a
Collaborative Learning Setting..... 2
[ECE 330, Infant Development (3).....4 - 7
and ECE 331, Education and Care of Infants in Group Settings (3)]
or [ECE 356, Programs for the School-Age Child (3)
and ECE 358, Activities for the School-Age Child (Six to Fourteen Years) (3)]]
or [[ART 320, Design: Fundamentals (3)
or ARTH 300, Introduction to Art (3)]
and ECE 360, Art in Early Childhood (3)]]
or [MUFHL 331, World Music: Africa, Europe, and the Middle East (3)
and ECE 362, Music for Children (3)]]
or [ECE 415, Children's Health, Safety and Nutrition (3)
and FCS 340, Nutrition (3)]]
or [[ECE 404, Children with Special Needs (3)
or ECE 400, Children with Exceptional Needs (3)]
and ECE 498, Work Experience in Early Childhood Education (1 - 4)]

* 75 hours paid or 60 hours volunteer experience per unit plus 18 hours lecture. Placement must be in a school-age program.

Total Units Required **32-35**

Career Certificate
Completion of the units shown above plus 16 General Education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Career Certificate and have the required career experience may be eligible to apply for the Child Development Master Teacher Permit issued by the Commission on Teacher Credentialing.

School-Age Site Supervisor

Associate in Arts Degree

This program provides preparation for employment in school-age care and education settings. The program meets the course requirements for directors in private care and education settings licensed by the California State Department of Social Services. The School-Age Site Supervisor A.A. degree course work is aligned with the Child Development Permits issued by the Teacher Credentialing Commission for staff in state funded early care and education programs. California law requires that staff in state funded early care and education settings possess a Child Development Permit.

The A.A. degree meets the educational requirements of the Site Supervisor Permit with a School-Age emphasis. To be eligible for the Site Supervisor Permit students must also have 350 days of three plus hours per day withing 4 years including at least 100 days of supervising adults

In addition, Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

Career Opportunities: Students receiving an School-Age Site Supervisor A.A. degree are eligible for employment at many levels in the diverse early care and education field. They may serve as teachers or as directors in a privately owned settings serving children of multiple ages. With the Site Supervisor Permit with the School-Age emphasis from the California Commission on Teacher Credentialing they would be eligible to supervise a single site of a state funded program. This program offers excellent preparation for a career teaching in elementary education or recreation with children.

Enrollment Eligibility: To be eligible for enrollment in the program, the student must meet the following criteria:

* ability to pass the Criminal Record Clearance or receive an exemption proving they are eligible to work with children

* test negative for tuberculosis

Required Program	Units
ECE 312, Child Development (3) or FCS 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 356, Programs for the School-Age Child	3
ECE 358, Activities for the School-Age Child (Six to Fourteen Years)	3
A minimum of 3 units from the following:	3
ECE 322, Promoting Children's Social Competence (3)	
ECE 342, Constructive Math and Science in Early Childhood Education (3)	
ECE 343, Language and Literacy Development in Early Childhood (3)	
ECE 344, Principles of Pre-School Skills Building: Planning Creative Play Environments (3)	
ECE 360, Art in Early Childhood (3)	
ECE 362, Music for Children (3)	
ECE 415, Children's Health, Safety and Nutrition (3)	
ECE 450, Science Activities for School-Age Children	3
ECE 320, Principles and Practices in Early Childhood Education	4
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 400, Children with Exceptional Needs	3
ECE 430, Culture and Diversity in Early Childhood Education	3
ECE 420, Administration of Child Development Centers	3
ECE 422, Advanced Coordination and Supervision of Child Development Programs	3
ECE 424, Adult Supervision: Mentoring in a Collaborative Learning Setting	2
Total Units Required	**40**

Electives
ECE 192, 305, 321, 322, 323, 330, 331, 342, 343, 344, 360, 362, 404, 415, 498; ENGLT 370; FCS 346.

Associate in Arts Degree
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Early Childhood Education (ECE)

ECE 104 Parenting Workshop 1 Unit

Formerly: ECE 55

Prerequisite: None
18 hours Lecture
This course is designed for, but not limited to, student-parents of either infant/toddler or preschool children that are enrolled at the Child Development Center on campus. The course is designed to give students the opportunity to discuss, explore and learn more about how to be an effective parent, including the skills required for clear communication, setting boundaries, developing self-esteem in the child, and practicing discipline. The course may be taken four times for credit.

ECE 106 Parenting Through Participation 1 Unit

Formerly: ECE 90

Prerequisite: None
6 hours Lecture; 48 hours Laboratory
This course is designed for student-parents who have their children enrolled in the Child Development Center on campus. The focus of the course is on basic parenting skills through weekly participation at the Center (three hours per week) and lecture/workshops throughout the semester. This course may be repeated for a maximum of four units.

ECE 190 The Art of Storytelling and Expressive Listening 2 Units

Formerly: ECE 60

Prerequisite: None
36 hours Lecture
This course is a guided practicum showing how professionals can train others to make the most effective use of oral language and become familiar and comfortable with the great myths, epics, legends, and fables of the world. Time will be spent on improvisational storytelling, tandem and group storytelling, and group participation storytelling.

ECE 192 Organizing the Environment for Teaching and Learning: Planning Activities, Routines, Physical Setting 1 Unit

Formerly: ECE 65

Prerequisite: None
18 hours Lecture
This course is an introduction to the Piagetian concepts of Active Learning. Active learning is a process that encourages the intrinsic motivation of children to learn through a developmentally appropriate curriculum. The course teaches techniques for classroom organization that support active learning. These include classroom space, routine, and activity planning based on Piaget's concepts.

ECE 294 Topics in Early Childhood Education .5-4 Units

Formerly: ECE 52

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
9-72 hours Lecture
Designed to give students an opportunity to study topics in Early Childhood Education which are consumer or job oriented and not included in current offerings. The course may be repeated for credit providing there is no duplication of topics. The course requires 18 hours lecture or 54 hours lab for each unit of credit.

ECE 300 Introduction to Early Childhood Education 3 Units

Formerly: ECE 1

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will introduce students to the field of early childhood education, including a brief overview of the history of the field, the current status of education for young children, and a review of programs serving children from infancy through the school-age years. Beginning with an overview of approaches to education, students will look closely at an approach known as integrated education and learn and apply skills in observing young children, documenting the work of young children, and interpreting these documents in order to plan subsequent curriculum. Students will be assigned projects which require them to observe in a variety of early childhood education settings. This course will prepare students with the background and skills they will need before entry into the student teaching laboratory classes.

ECE 305 Introduction to Family Child Care 1 Unit

Formerly: ECE 19

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
18 hours Lecture
This course is an orientation to Family Child Care. It includes local regulations, health and safety, curriculum, behavior management, and business requirements of in-home child care services.

ECE 312 Child Development (Same as FCS 312) 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: CSU
54 hours Lecture
This course is designed for students to study the growth and development of children from the prenatal stage through adolescence. For each stage of development, the physical, cognitive, linguistic, social-moral, and emotional aspects of development with attention to both typical as well as atypical development in each area is discussed. Included are the influences of culture, family, and the environment. The material on this course is designed as a foundation for teaching, nursing, early childhood education, and parenting. (Credit offered for ECE 312 or FCS 312.)

ECE 314 The Child, the Family and the Community 3 Units

(Same as FCS 314 and SOC 312)

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FCS 312; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area B2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
The course is designed for students to examine the child in the family and community. Influences on growth and development including media, social class, gender, sexual orientation, racial/ethnic groups, and their relationship to family behavior will be studied. Students will identify and evaluate personal family dynamics and consequences. Additionally, students are given the opportunity to research and review the diverse community activities and resources available to support the child and the family. (Credit for ECE 314 or FCS 314 or SOC 312.)

ECE 320 Principles and Practices in Early Childhood Education 4 Units

Formerly: ECE 3

Prerequisite: ECE 312 or FCS 312 with a grade of "C" or better.
Enrollment Limitation: *Current TB clearance*
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
In this practicum class, students work weekly alongside a more experienced teacher in a classroom with young children and attend weekly lectures where the principles and practices behind effective education of young children are presented and discussed. Students gain experience in planning and interpreting activities with young children, in creating settings for learning within a classroom, and in guiding children's behavior. The students will be assigned to the Campus Child Development Center during specific times of the day for supervised laboratory experiences. Students may also complete up to 50 percent of their lab hours at selected schools. (108 hours of laboratory experience are required for completion.) A current TB test is also required.

ECE 321 Advanced Principles and Practices in Early Childhood Education 4 Units

Formerly: ECE 4

Prerequisite: ECE 320 with a grade of "C" or better. Students must show proof of negative TB test prior to participating in the lab.
Enrollment Limitation: *Current TB clearance*
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
In this advanced practicum class, students work alongside a more experienced teacher in a classroom with young children and attend weekly lectures where the principles and practices behind effective early childhood curriculum design and overall classroom management are presented and discussed. Students will plan and implement long-term projects with young children, applying their skills in observation, documentation, and interpretation of children's work. Assuming the role of lead classroom teacher, students will plan, provision, and supervise the overall setting for learning and demonstrate leadership in guiding children's behavior, individually and during group gatherings. Students will be assigned to the Campus Child Development Center or selected schools for supervised laboratory practicum. 108 hours of practicum experience are required for completion. A current TB test is required.

ECE 322 Promoting Children's Social Competence 3 Units

Prerequisite: ECE 300 and FCS 312 with grades of "C" or better.
Acceptable for credit: CSU
54 hours lecture
This course is designed for teachers in early care and education programs as they support children's development of social competence. The course includes strategies for understanding and responding to children's behavior in ways that are congruent with the core values of early childhood education. Concepts of guidance relating to development, culture, and environment will be presented.

ECE 323 The Effective Parent-Teacher 3 Units

Formerly: ECE 21

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course will present material and learning experiences that assist parents and teachers in developing skills in areas of discipline and behavior with young children. Alternative approaches to handling behavior problems will be reviewed and discussed.

ECE 330 Infant Development 3 Units

Formerly: ECE 7A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course is an examination of the developmental needs of infants from conception to three years of age. The course prepares parents and health, education, and social service professionals with strategies for care based on research in infant development.

ECE 331 Education and Care of Infants in Group Settings 3 Units

Formerly: ECE 7B

Prerequisite: ECE 330 or FCS 312 with a grade of "C" or better.
Enrollment Limitation: *Current TB clearance*
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course applies current research in infant development to the teaching and care of infants in group settings. Emphasis is on early childhood education principles and practices when applied to the care and education of infants from birth to three years of age. It includes strategies for designing, implementing, and evaluating group care programs for infants. The course requires participation for a designated three hours per week with infants and for toddlers under the supervision of experienced care givers in a selected infant toddler setting.

ECE 342 Constructive Math and Science in Early Childhood Education **3 Units**

Formerly: ECE 20A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to the constructivist approach to teaching pre-math and science in early childhood education. The content and teaching techniques support the perspective that children construct knowledge through a dynamic, interactive process that facilitates their development of working theories relating to math and science.

ECE 343 Language and Literacy Development in Early Childhood **3 Units**

Formerly: ECE 20B

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course will prepare current or future early childhood educators and caregivers to understand and enhance the emergent literacy experiences of young children. The knowledge of developmentally appropriate literacy practices will improve the early childhood educators' abilities to prepare children from birth to age 5 for reading and writing in the primary grades.

ECE 344 Principles of Pre-School Skills Building: Planning Creative Play Environments **3 Units**

Formerly: ECE 20C

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
Play environments are an important component of an early childhood educational setting. This course will help students plan safe and educational environments that will enrich a child's experiences. It will also cover the importance of fostering child-child and adult-child interactions in play environments. Students will be able to analyze the use of physical space in early childhood settings and implement program philosophies and goals.

ECE 350 Introduction to Elementary Teaching with Field Experience **3 Units**

Formerly: ECE 10

Prerequisite: None
Advisory: FCS 312 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is a career exploration course with an early field experience for those students considering the field of K-8 teaching. It includes a supervised field placement of three hours weekly in a local elementary school in addition to weekly class meetings on campus. It will fulfill one of the early field experiences for the CSUS blended liberal studies major. Course content includes the profession and culture of teaching, observation skills, communication skills, diversity and social issues. Students' field experiences will integrate and apply the course content. Students will also complete a service learning project at participating schools.

ECE 356 Programs for the School-Age Child **3 Units**

Formerly: ECE 9

Prerequisite: None
Advisory: FCS 312 and FCS 314 with grades of "C" or better; ENGRD 110 and ENGWR 100; or ESLR 340, ESLW 340 and ESL 114 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
Students will be introduced to the fundamentals of planning, implementing, and evaluating programs for the school-age child (K-8). Emphasis will be placed on day-to-day program operation, teaching strategies, developmental levels of the school-age child and age-appropriate activities. Assignments are incorporated for students to observe and evaluate school-age care programs in our community.

ECE 358 Activities for the School-Age Child (Six to Fourteen Years) **3 Units**

Formerly: ECE 16

Prerequisite: None
Advisory: ECE 356, FCS 312 and FCS 314 with grades of "C" or better; ENGRD 110 and ENGWR 100; or ESLR 340, ESLW 340 and ESL 114 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
Students will study developmentally appropriate activities for the school-age child (K-8). Topics include conflict management, construction, diversity, music, movement, science, nature, and drama. Students will explore other topics such as cooperative program planning, environments, guidance techniques and the importance of positive interpersonal relationships between the adults and the children in a school-age care program. As a semester project, the design, implementation and evaluation of school-age activities become the responsibility of the students.

ECE 360 Art in Early Childhood **3 Units**

Formerly: ECE 17

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course is a study of the use of creative visual art in early childhood education programs. The appropriate use of art materials and activities for children at different developmental stages will be reinforced. The integration of creative art processes across the curriculum and the adaptation of these processes to support young children's development will be emphasized.

ECE 362 Music for Children **3 Units**

Formerly: ECE 18

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
Music is an essential tool for teachers of young children. This

course provides the fundamentals of music designed for preschool and child development center teachers. The importance of music in early learning is discussed. Skills in performing rhythms and songs will be developed and practiced. The use of music as a part of creating a multicultural curriculum is included. Students will learn to write music lesson plans appropriate for early childhood settings.

ECE 400 Children with Exceptional Needs 3 Units

Formerly: ECE 8

Prerequisite: FCS 312 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is an overview of the developmental issues, characteristics, and learning differences of children from birth to adolescence with exceptional needs. Current educational strategies including assessment and curriculum design will be presented. Community resources, advocacy, and challenges for children with exceptional needs and their families will be examined.

ECE 402 Infants with Atypical Developments 3 Units

Formerly: ECE 6

Prerequisite: None
Advisory: Completion of ECE 312 and FCS 312 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to acquaint the student with the characteristics of the atypical infant assessment procedures and techniques for intervention in the development areas of sensory stimulation and integration, gross and fine motor control, cognition, language, social, and self-help skills. The course will explore community services, agencies, career and vocational opportunities in fields related to the infant with atypical development; medicine, nursing, physical therapy, special education, counseling, social work, institutional settings, and aide positions.

ECE 404 Children with Special Needs 3 Units

Prerequisite: Completion of FCS 312 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to provide a broad overview of the characteristics, assessment techniques, methods of intervention and education, community and family resources, and current issues of young children from birth to age eight with exceptional needs and differing abilities. The focus is to increase the awareness and understanding of children's individual needs in an early childhood setting and to provide practical information to those currently involved with children with exceptional needs. Observations in public or private children's programs, schools, and agencies are required and may be completed independently by each student outside of class.

ECE 410 Health and Safety in Child Care Settings (Same as HEED 330) 1 Unit

Formerly: ECE 13

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU
18 hours Lecture
This course will discuss health and safety issues in child care centers and family day care homes. Topics include pediatric cardiopulmonary resuscitation, pediatric first aid, and preventative health practices such as control of infectious diseases, injury prevention, nutrition, sanitation, emergency preparedness and evacuation. This course meets requirements of mandated training for child care providers.

ECE 415 Children's Health, Safety and Nutrition (Same as FCS 346) 3 Units

Formerly: ECE 14

Prerequisite: None
Advisory: ECE 410 and ENGRD 110, and ENGWR 100 or ESLR 340, and ESLW 340, ESL 114, FCS 312, and FCS 314 and FCS 340; MATH 34 with grades of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
Students will study the basic health, safety, and nutritional needs of children from the prenatal period through school-age. Topics include identification of the nutrients in foods as they affect a child's physical, and mental development. Course emphasis is placed on maintaining the optimal health, safety, and nutritional status of children at home, and in group care. Projects related to health, safety, and nutrition education are included as part of the curriculum. One field trip is required. (Students may receive credit for FCS 346 or ECE 415, but not both.)

ECE 420 Administration of Child Development Centers 3 Units

Formerly: ECE 5

Prerequisite: None
Advisory: Completion of FCS 312 and ECE 300 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This is an introductory course in the elements of program planning, budgeting, supervision, and personnel administration for schools and private centers serving children and families. The emphasis in this course is on privately funded facilities licensed under the Department of Social Services Community Care Licensing, Title 22.

ECE 422 Advanced Coordination and Supervision of Child Development Programs 3 Units

Formerly: ECE 15

Prerequisite: ECE 320 or ECE 420 with a grade of "C" or better.
Advisory: At least one year experience working with children in a child care and development program.
Acceptable for credit: CSU
54 hours Lecture
This is an advanced course in administration and coordination of multi-faceted Child Development programs. The focus of the course will be programs funded with public money or administrated by a board of directors. Additional emphasis will be on personnel management including teacher classifications under the Child Development Permit Matrix. This course meets the requirements of the Education Code under Title 5 and the Commission for Teacher Credentialing for California for the Site Supervisor Permit.

ECE 424 Adult Supervision: Mentoring in a Collaborative Learning Setting 2 Units

Formerly: ECE 47

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This course is a study of the methods and principles of the collaborative learning approach with emphasis on supervising teachers in child care centers. Emphasis is on the role of a mentor who functions to guide the teaching team while simultaneously addressing the needs of children, parents and their staff. This course satisfies the adult supervision requirement for receiving a supervising teacher permit from the California Commission on Teacher Credentialing.

ECE 430 Culture and Diversity in Early Childhood Education 3 Units

Formerly: ECE 36

Prerequisite: None
Advisory: ENGWR 100 and FCS 312.
General Education: AA/AS Area F.
Acceptable for credit: CSU
54 hours Lecture
This course covers culturally responsive care and education in early childhood settings. It includes the study of childrearing and communication styles as they vary across the diverse cultures represented in the classroom and as they impact a child's development. Teaching strategies which prevent and eliminate the development of prejudice and racism in growing children will also be covered.

ECE 450 Science Activities for School-Age Children 3 Units

Formerly: ECE 56

Prerequisite: None
Enrollment Limitation: Current TB clearance.
Advisory: ECE 356, ECE 358, FCS 312, FCS 314 and MATH 34 with grades of "C" or better; ENGRD 110 and ENGWR 100; or ESLR 340, ESLW 340 and ESL 114 with grades of "C" or better
Acceptable for credit: CSU
54 hours Lecture
Participation in this course will provide students with early field experience teaching science to children. Students will be introduced to science education, as well as children's physical, social, and cognitive developmental characteristics. A hands-on approach will be emphasized, using inquiry-based materials. In addition to weekly class meetings, students will observe and implement planned activities in a school-age care program located off campus for three hours a week. Students' experiences and reflections will be documented in a learning portfolio format. ECE 450 is one component of the Science Specialization for Master Teacher Career Certificate. Proof of current TB clearance is required before working directly with school-age children.

ECE 498 Work Experience in Early Childhood Education 1-4 Units

Formerly: ECE 48

Prerequisite: Students must show proof of negative T.B. test prior to employment or volunteering in an early care and education program. Employment in a position related to Early Childhood Education and enrollment in a minimum of 7 units including Work Experience.
Advisory: Completion of ENGWR 100 and ENGRD 110 with grades of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in infant, preschool, and school-age child care centers. Students may be placed in infant centers, public or private child development centers/preschools, and in before or after-school programs for school-age children. Enrollment is dependent on job or volunteer placement and registration for the course will be processed at the time of employment or volunteer placement. Job placement is not guaranteed but assistance is provided by the coordinator. The student is required to fulfill 18 lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be repeated when there is new or expanded learning on the job up to four times, for a maximum of eight (8) units. If the student enrolls in a maximum of four (4) units the course may be taken only twice.

Economics ECON

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

ECON 100 Introduction to Economics 3 Units

Formerly: ECON 55

Prerequisite: None
General Education: AA/AS Area B2.
54 hours Lecture
This course introduces the purpose, terminology, and basic concepts of economic theory; examines the fundamental economic problem of scarcity and describes how our society is organized to deal with scarcity. It considers some of the problems (unemployment, inflation, poverty) that economic theory may help solve.

ECON 302 Principles of Macroeconomics 3 Units

Formerly: ECON 1A

Prerequisite: None
Advisory: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC (ECON 302 or 480, maximum one course)/CSU
54 hours Lecture
This course describes the interaction among households, business, government, and the foreign sectors of the economy. It relates the link between money, interest rates, government expenditure and taxation, in determining the levels of output, employment, prices, income, national debt, and balance of trade.

ECON 304 Principles of Microeconomics 3 Units

Formerly: ECON 1B

Prerequisite: None
Advisory: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
The pricing and allocation of resources under varying market competitive conditions are the focus of this course. Consideration of the effect government action may have on the efficiency, effectiveness, and equity of market behavior, and an investigation of factor markets, including labor markets and also market failure are included. Other topics may be covered as time permits.

ECON 310 Economic Statistics 3 Units

Formerly: ECON 2

Prerequisite: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area D2.
Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU
54 hours Lecture
This course covers the collection, presentation, analysis, and interpretation of numerical data; statistical analysis including central tendency, variation, probability, sampling, inference, index numbers, linear regression, and correlation.

ECON 330 Fundamentals of Investment Management and Financial Markets 3 Units

Formerly: ECON 15

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Fundamentals of Investment Management and Financial Markets will provide important information that individuals should know before investing their funds or managing Investments. The course will be equally valuable to those who have little or no knowledge of investing and financial markets as well as those who are already investors and want to sharpen their skills. The course will provide a blend of the traditional and modern approaches to investment decision making (and financial markets). The traditional approach is largely descriptive, while the modern approach emphasizes quantitative techniques. The emphasis will be on understanding the underlying concepts rather than on the mathematics.

ECON 480 Principles of Macroeconomics -Honors 3 Units

Formerly: ECON 1AH

Prerequisite: None
Advisory: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC (ECON 302 or 480, maximum one course)/CSU
54 hours Lecture
This course uses statistical, historical, and comparative data to develop an understanding of economic theory, problems, policies, and issues. It includes the foundations of economics: the nature of markets; problems and issues of the role of government; development of theory and its application in public policy; issues relating to expenditure, money, taxation, and international trade in determining the levels of employment, the price level, national income, budget and trade balances. This honors section uses an intensive instructional methodology designed to challenge and motivate students and to heighten understanding of economic dynamics.

ECON 482 Economic Statistics - Honors 3 Units

Formerly: ECON 2H

Prerequisite: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU
54 hours Lecture
This course covers the collection, presentation, analysis, and interpretation of numerical data: statistical analysis including central tendency, variation, probability, sampling, inference, index numbers, linear regression, and correlation. This honors section uses an intensive instructional methodology designed to challenge motivated students.

Electric Vehicle Technology EVT

Career Certificate

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Designed for students pursuing a career in the new and upcoming field of Electric Vehicle and Fuel Cell Technology.

Career Opportunities: This technological field is used in a variety of areas using clean fuel cell and electric vehicles. Some specific areas are: governmental agencies, airports, transit authorities, industrial companies, automobile manufacturers, and personnel use.

Preparation: High School courses in English, mathematics, electronics, mechanics, and computers are encouraged.

Required Program	Units
EVT 100, Introduction to Electric Vehicles	3
EVT 110, Introduction to Electric Vehicle Conversions	4
EVT 130, Electric Vehicle Batteries	3
Electives	8
Total Units Required	**18**

Select eight (8) units from the following courses:
EVT 111, 120, 131, 140, 141; AERO 300, 301, 302, 303, 320, 321, 322, 323; ET 300, 301, 310, 311, 315, 320, 330, 340, 350, 390, 400, 410; AMT 300, 301, 302, 304, 312, 314, 316, 326, 330, and 332

Automotive Mechanics Technology (AMT) courses (AMT 300, 301, 302, 304, 312, 314, 316, 326, 330, and 332) are offered at Cosumnes River College and American River College only. There is no automotive program at Sacramento City College.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

The Electric Vehicle Technology Certificate Program is not part of an automotive program.

EVT 100 Introduction to Electric Vehicles 3 Units

Formerly: EVT 60

Prerequisite: None
54 hours Lecture
This course will provide an overview of the electric vehicle field. The topics covered will include electric vehicle technology, economics, regulations, environmental impact, and safety.

EVT 110 Introduction to Electric Vehicle Conversions 4 Units

Formerly: EVT 62

Prerequisite: None
54 hours Lecture; 54 hours Laboratory
This course introduces the student to the world of electric vehicle (EV) conversions. Students will be instructed with alternatives of gasoline powered vehicular travel and to the specific advantages of electric powered automobiles. Topics to be covered are the process of conversion of a gas powered vehicle to electric power, including testing, assembly, operation, and maintenance of EV's.

CELEBRATING 90 YEARS

EVT 111 Electric Vehicle Drivetrain Components 3 Units

Formerly: EVT 64

Prerequisite: None
36 hours Lecture; 54 hours Laboratory
This course is an overview of the latest electric car drivetrain components that will be used in converting a gasoline powered automobile to electric power. Drivetrain components that will be used in original equipment manufactured or O.E.M. automobiles will also be studied.

EVT 120 Electric Bicycles, Mopeds, and Motorscooters 1 Unit

Formerly: EVT 67

Prerequisite: None
18 hours Lecture
This course will provide information on two wheeled electric vehicles. Included in the course will be information on bicycles, mopeds and motorscooters, both manufactured and converted by electrical vehicle hobbyists. Current technology on lightweight vehicle batteries, motors and controllers will be covered. The economics of owning and operating two-wheeled electric vehicles with safety and regulations will be covered.

EVT 121 Introduction to Electric Motorcycle Conversions 1 Unit

Formerly: EVT 68

Prerequisite: None
18 hours Lecture
This course introduces the student to electric motorcycle conversions. Students will be instructed in alternatives to internal combustion engines and specifically to electric power. Included are the conversion processes, testing, assembly, operation and general maintenance, and basic safety and government course topics regulations.

EVT 130 Electric Vehicle Batteries 3 Units

Formerly: EVT 66

Prerequisite: None
54 hours Lecture
This course introduces students to today's battery technology as it relates to electric vehicles. Students will be instructed on the various types of batteries found in automobiles and batteries of the future. Emphasis will be placed on battery safety, handling, and maintenance.

EVT 131 Introduction to Electric Vehicle Batteries 1 Unit

Formerly: EVT 71

Prerequisite: None
18 hours Lecture
This course will provide an introduction to electric vehicle battery technology. The topics covered will include battery theory, maintenance, and the use of various types of batteries used in electric vehicles.

EVT 140 Controllers for Electric Vehicles 1 Unit

Formerly: EVT 70

Prerequisite: None
18 hours Lecture
This course will prepare the student for an understanding of controllers used on electric vehicles. A history of controller evolution will be covered as well as the latest technology.

EVT 141 Introduction to Electric Vehicle Motors 1 Unit

Formerly: EVT 72

Prerequisite: None
18 hours Lecture
This course introduces the student to motors used in electric vehicles. The topics covered include electric motor theory and history of electric vehicle motors, and the commonly used electric vehicle motors of today. Also included will be topics on electric motor maintenance and troubleshooting.

EVT 294 Topics in Electric Vehicle Technology .5-4 Units

Formerly: EVT 85

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
This is a specialized course developed in cooperation with industry to address emerging training needs. This course may be taken no more than three times for credit provided there is no duplication of topics.

Electronics Technology ET

Associate in Science Degree

Career Certificate

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Automated Systems Technician, Degree and Career Certificate

Electronics Facilities Maintenance Technician, Degree and Career Certificate

Microcomputer Technician, Degree and Career Certificate

Telecommunications Technician, Degree and Career Certificate

Electronics Mechanic, Career Certificate

Career Opportunities

The Electronics Technology Program consists of five major career preparation options:

Telecommunications Technician: Designed to prepare students for employment in the calibrating, testing, repair and maintenance of electronic communications equipment.

Automated Systems Technician: Designed to prepare students for employment in the programming, testing, repair and maintenance of digital and analog computer controlled systems.

Electronics Facilities Maintenance Technician: Designed to prepare students for employment in Federal Aviation Administration facilities or any facilities with advanced computer and communications electronics

Microcomputer Technician: Designed for Electronics Technology or Computer Information Science students pursuing employment in the area of programming and maintaining microcomputer systems

Electronics Mechanic: Designed to prepare students for employment in the assembly and testing of electronic circuit devices.

Recommended High School Preparation

Courses in electricity, electronics, English, algebra, physics, chemistry and computers.

Program Costs

In addition to the normal student expenses (for textbooks, personal equipment and supplies), laboratory materials fees may be required. Students will be responsible for providing some of their own parts and a basic Electronics tool kit. These will be available as ready-made sets in the College Store. For specific class required materials and texts, check with the Electronics faculty or the College Store. These fees may vary each semester. If these fees create a financial burden, students should consult the Financial Aid Office for possible assistance.

Admission to Program (All Options)

See each course listing for course prerequisites. Orientation interview with a member of the Electronics Technology department is recommended. For information, please call (916) 558-2263 or 558-2491.

CELEBRATING 90 YEARS

Automated Systems Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for students pursuing employment in the programming, testing, repair, and maintenance of digital and analog computer controlled systems.

Required Program	Units
ET 300, DC Theory and Circuit Fundamentals	2.5
ET 301, AC Theory and Circuit Fundamentals	2.5
ET 306, Electronics Fabrication and Soldering Techniques	2
ET 310, Mathematics for DC Circuit Fundamentals, Part I	1.5
ET 311, Mathematics for AC Circuit Fundamentals, Part II	1.5
ET 315, Mathematics for Semiconductor Theory	3
ET 320, Semiconductor Theory	5
ET 330, Analog and Digital Integrated Circuit Applications	5
ET 340, Basic Microprocessors	5
ET 360, Electronic Servicing and Calibration Techniques	3
ET 390, Microprocessor Systems - Troubleshooting	3
ET 400, Microwave Communications Techniques	4
CISC 310, Introduction to Computer Information Science	3
ET 490, Advanced Student Projects Laboratory	2
ET 490, Advanced Student Projects Laboratory	2
Total Units Required	**45**

Suggested Electives
EDT 310, 352; TECH 100, 103 (same as MET 220), 300, 310, 315.

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of requirements in the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better.

Electronics Facilities Maintenance Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for students pursuing internships and employment in the Federal Aviation Administration and other related industries in the areas of computer systems, environmental systems, communication equipment, and navigation equipment maintenance and repair.

Required Program	Units
ET 300, DC Theory and Circuit Fundamentals	2.5
ET 301, AC Theory and Circuit Fundamentals	2.5
ET 306, Electronics Fabrication and Soldering Techniques	2
ET 310, Mathematics for DC Circuit Fundamentals, Part I	1.5
ET 311, Mathematics for AC Circuit Fundamentals, Part II	1.5
ET 315, Mathematics for Semiconductor Theory	3
ET 320, Semiconductor Theory	5
ET 330, Analog and Digital Integrated Circuit Applications	5
ET 340, Basic Microprocessors	5
ET 350, Receiver Circuits	5
ET 390, Microprocessor Systems - Troubleshooting	3
ET 400, Microwave Communications Techniques	4
ET 410, Transmitter Fundamentals	5
MATH 334, Trigonometry	4
Total Units Required	**49**

Suggested Electives
CISC 310, ET 490, EDT 310, 352; TECH 100, 103 (same as MET 220), 300, 310, 315.

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Microcomputer Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for Electronics Technology and Computer Information Science students pursuing employment in the area of programming and maintaining microcomputer systems.

Required Program	Units
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISP 363, Structured Programming with BASIC	2
CISC 320, Operating Systems (1)	
or CISC 323, Linux Operating System (1)	1
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 311, Intermediate Electronic Spreadsheets	1
CISA 320, Introduction to Database Management (1)	
or CISA 323, Database Management using Microsoft Access (2)	1-2
ET 145, Basic Computer System Repair I (1)	
and ET 146, Basic Computer System Repair II (3)	
or CISC 360, Microcomputer Support and Maintenance (4)	4
ET 340, Basic Microprocessors	5
ET 390, Microprocessor Systems - Troubleshooting	3
ET 490, Advanced Student Projects Laboratory	2
CISC 355, Introduction to Data Communications (1.5)	
or CISN 300, Network Systems Administration (3)	
or CISN 303, Network Administration (3)	1.5-3
A minimum of 4 units from the following:	4
ET 300, DC Theory and Circuit Fundamentals (2.5) and ET 301, AC Theory and Circuit Fundamentals (2.5)	
ET 306, Electronics Fabrication and Soldering Techniques (2)	
ET 310, Mathematics for DC Circuit Fundamentals, Part I (1.5) and ET 311, Mathematics for AC Circuit Fundamentals, Part II (1.5)	
ET 320, Semiconductor Theory (5)	
EDT 310, Computer Aided Drafting (3)	
EDT 352, Electrical and Electronics Drafting Design (4)	
TECH 100, Introduction to Technology (1)	
TECH 103, Technical Communication (Same as MET220) (3)	
TECH 300, Introduction to Robotic Systems Application (3)	
TECH 310, Industrial Safety (1)	
TECH 315, Industrial Relations (1)	
CISN 300, Network Systems Administration (3)	
CISC 351, Introduction to Local Area Networks (1)	
CISN 303, Network Administration (3)	
CISN 304, Networking Technologies (3)	
Total Units Required	**32.5-35**

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better in all courses or equivalent.

Telecommunications Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for students pursuing employment in the calibration, testing, repair and maintenance of electronic communications equipment.

Required Program	Units
ET 300, DC Theory and Circuit Fundamentals	2.5
ET 301, AC Theory and Circuit Fundamentals	2.5
ET 306, Electronics Fabrication and Soldering Techniques	2
ET 310, Mathematics for DC Circuit Fundamentals, Part I	1.5
ET 311, Mathematics for AC Circuit Fundamentals, Part II	1.5
ET 315, Mathematics for Semiconductor Theory	3
ET 320, Semiconductor Theory	5
ET 330, Analog and Digital Integrated Circuit Applications	5
ET 340, Basic Microprocessors	5
ET 350, Receiver Circuits	5
ET 360, Electronic Servicing and Calibration Techniques (3)	
or ET 390, Microprocessor Systems - Troubleshooting (3)	3
ET 400, Microwave Communications Techniques	4
ET 410, Transmitter Fundamentals	5
Total Units Required	**45**

Suggested Electives
CISC 310, ET 490, EDT 310, 352; TECH 100, 300, 310, 315.

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better in all courses or equivalent.

Electronics Mechanic

Career Certificate
Career Opportunities: This program is designed for students pursuing employment in the assembly and testing of electronic circuit devices.

Required Program	Units
ET 300, DC Theory and Circuit Fundamentals	2.5
ET 301, AC Theory and Circuit Fundamentals	2.5
ET 306, Electronics Fabrication and Soldering Techniques	2
ET 310, Mathematics for DC Circuit Fundamentals, Part I	1.5
ET 311, Mathematics for AC Circuit Fundamentals, Part II	1.5
ET 315, Mathematics for Semiconductor Theory	3
ET 320, Semiconductor Theory	5
A minimum of 13 units from the following:	13
CISC 310, Introduction to Computer Information Science (3)	
MET 351, Basic Machinery Systems (5)	
MET 352, Machinery Systems Calculations (5)	
TECH 103, Technical Communication (Same as MET 220) (3)	
TECH 310, Industrial Safety (1)	
TECH 315, Industrial Relations (1)	
Total Units Required	**31**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Electronics Technology (ET)

ET 15 Beginning Mathematics for Electronics 3 Units

Formerly: ET 201

Prerequisite: None
54 hours Lecture
Non-degree Applicable
This is a course for those interested in electronics who do not meet the requirements for ET 300/301. Includes DC and AC circuit mathematics, scientific calculators, powers of ten, and introduction to algebraic concepts as related to electronics.

ET 145 Basic Computer System Repair I 1 Unit

Formerly: ET 171

Prerequisite: None
12 hours Lecture; 18 hours Laboratory
This is an introduction course to personal computer repair. The course will begin with an overview of the history of computer repair and discussion of common computer repair nomenclature, diagnostic software, and the theory of computer operations. The course will also introduce the student to the use of the Internet for locating technical repair documentation on the Web.

ET 146 Basic Computer System Repair II 3 Units

Formerly: ET 172

Prerequisite: ET 145 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is the second of three courses in computer repair. It will use knowledge and skills of ET 145 to expand the students familiarization with computer hardware and software at a component level. This will give students an overview of repair procedures of a computer system. The scope of the course will include personal computer fabrication and common problem solutions. Troubleshooting philosophies and techniques are emphasized.

ET 147 Basic Computer System Repair III 3 Units

Formerly: ET 173

Prerequisite: ET 146 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is the third of three courses in computer system repair. It will use knowledge and skills of ET 145 and ET 146 to train the student in the advanced skills needed for desktop and network computer repair. The scope of the course will include PC board and component level repair of a typical desk top computer system. Troubleshooting philosophies and techniques are emphasized.

ET 210 Applied Mathematics for Electronics 3 Units

Formerly: ET 121

Prerequisite: None
54 hours Lecture
This is a basic course for those interested in electronics who do not meet the requirements for ET 300. Units of instruction include DC and AC circuit application mathematics, scientific calculators, powers of ten and introduction to algebraic concepts as related to electronics.

ET 220 A Survey of AC and DC Circuit Fundamentals 5 Units

Formerly: ET 130

Prerequisite: ET 210 and 230 with grades of "C" or better or equivalent.
54 hours Lecture; 108 hours Laboratory
This course is designed to provide instruction in the basic concepts of AC and DC theory including a study of resistors, capacitors and inductors in series and parallel circuits. Laboratory use of meters, oscilloscopes, signal generators and power supplies will be stressed.

ET 230 Laboratory Practices and Techniques 1 Unit

Formerly: ET 150

Prerequisite: None
Advisory: Concurrent enrollment in ET 210.
54 hours Laboratory
This course provides instruction in the language of electronics, safe and efficient use of tools, equipment, and chemical processes used in the laboratory including: high voltage precautions, printed circuit fabrication, equipment panel fabrication silkscreen, and state-of-the-art soldering techniques.

ET 240 A Survey of Semiconductor Theory 5 Units

Formerly: ET 161

Prerequisite: ET 220 with a grade of "C" or better or equivalent.
54 hours Lecture; 108 hours Laboratory
This course provides a survey of diodes, transistors, FET's, linear and digital IC's and how they are installed and used in modern electronic equipment. Laboratory will stress the hands-on manufacturing and troubleshooting of modern electronic equipment.

ET 300 DC Theory and Circuit Fundamentals 2.5 Units

Formerly: ET 30A

Prerequisite: One year of high school algebra or ET 15 with a grade of "C" or better or equivalent prerequisite.
Advisory: Concurrent enrollment in ET 306 and 310.
Acceptable for credit: CSU
27 hours Lecture; 54 hours Laboratory
This course is designed to provide instruction in the basic concepts of DC theory including a study of the composition of matter, circuit fundamentals, voltage, current and resistance in series, parallel and combination circuit configurations. Laboratory activities provide hands-on projects that include operation and use of electronic equipment required by industry.

ET 301 AC Theory and Circuit Fundamentals 2.5 Units

Formerly: ET 30B

Prerequisite: Successful completion of ET 300 with a grade of "C" or better or equivalent prerequisite.
Advisory: Concurrent enrollment in ET 306 and 311.
Acceptable for credit: CSU
27 hours Lecture; 54 hours Laboratory
This course is designed to provide instruction in the basic concepts of AC theory including a study of circuit fundamentals, voltage, current, resistance and RLC impedances in series, and parallel and combination circuit configurations. Laboratory activities provide hands-on projects that include operation and use of electronic equipment required by industry.

ET 306 Electronics Fabrication and Soldering Techniques 2 Units

Formerly: ET 50

Prerequisite: None
Advisory: Successful completion of or concurrent enrollment in ET 300 and 301.
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course covers the skills needed for identification and the safe and efficient use of hand tools and soldering equipment used in basic electronics repair. Familiarization with fabrication, soldering/de-soldering techniques, electrostatic discharge (ESD), assembly and safety practices are covered.

ET 310 Mathematics for DC Circuit Fundamentals, Part I 1.5 Units

Formerly: ET 51A

Prerequisite: One year of high school algebra or ET 15 with a grade of "C" or better, or qualifying mathematics assessment test scores or equivalent.
Advisory: Concurrent enrollment in ET 300.
General Education: AA/AS Area D2 (ET 310 and 311).
Acceptable for credit: CSU
27 hours Lecture
This course focuses on the application of the basic concepts of algebra to solve electronic problems in DC resistive series parallel circuits. It will also instruct in the use of powers of ten, algebra and other mathematical concepts necessary for calculation of resistance, DC voltage and current distribution in series, and parallel and combination circuits.

ET 311 Mathematics for AC Circuit Fundamentals, Part II 1.5 Units

Formerly: ET 51B

Prerequisite: Successful completion of ET 310 with a grade of "C" or better or equivalent prerequisite.
Advisory: Concurrent enrollment in ET 301.
General Education: AA/AS Area D2 (ET 310 and 311) and Math Competency.
Acceptable for credit: CSU
27 hours Lecture
This course focuses on the application of the basic concepts of algebra and trigonometry to solve electronic problems in AC-RLC series/parallel circuits. It will also instruct in the use of powers of ten, logarithms, algebra, and other mathematical concepts necessary for calculation of resistances, reactances, AC voltage and current distribution in series, parallel and combination circuits.

ET 315 Mathematics for Semiconductor Theory 3 Units

Formerly: ET 60

Prerequisite: ET 300, 301, 310, and 311 with a grades of "C" or better or equivalent.
Advisory: Concurrent enrollment in ET 320 and 330.
AA/AS: Math Competency
Acceptable for credit: CSU
54 hours Lecture
This course provides a detailed study of the mathematics required to solve problems in semiconductor circuit theory. Some of these math functions include: vector algebra, load line plotting, decibel theory and application, common and natural log functions, power supply analysis, calculation of input and output bandwidth characteristics of semiconductor amplifiers, use of rate-of-change functions to study slope of lines and their relationship to amplifier impedances, and use of network theorems to simplify complex biasing networks.

ET 320 Semiconductor Theory 5 Units

Formerly: ET 61

Prerequisite: ET 300, 301, 310, and 311 with a grades of "C" or better or equivalent.
Advisory: Concurrent enrollment in ET 315.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course provides a detailed study of diodes, transistors, FET's, linear IC's and their use in power supplies, AC and DC small signal and large signal amplifiers. Laboratory will stress the troubleshooting and repair of each type of power supply and amplifier circuit.

ET 330 Analog and Digital Integrated Circuit Applications 5 Units

Formerly: ET 71

Prerequisite: ET 300, 301, 310, and 311 with a grades of "C" or better or equivalent.
Advisory: Concurrent enrollment with ET 315 and 320.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course focuses on log gates, and truth tables for TTL and CMOS circuits. Theory and practical applications of decoders, flip-flops, latches and counters will be covered. Theory and practical applications for operational amplifiers and comparators will be

covered. Theory and applications of timers, phase-locked loops, op-amp integrators and active filters.

ET 340 Basic Microprocessors 5 Units

Formerly: ET 72

Prerequisite: None
Advisory: Concurrent enrollment in ET 490.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This beginning course dealing with the circuitry and use of the microprocessor. Peripheral hardware is also considered so that the student may gain an overview of a complete computer system. The scope of the course includes machine language programming in order to provide a base for understanding the dynamic operation of the entire system. Troubleshooting philosophy is stressed.

ET 350 Receiver Circuits 5 Units

Formerly: ET 73

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course focuses on the principles of radio receivers using AM, FM and single sideband modulation systems. The course will also present associated control circuits and power supply circuitry for receivers.

ET 360 Electronic Servicing and Calibration Techniques 3 Units

Formerly: ET 74

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course focuses on developing familiarization with laboratory and test instruments and techniques of calibration and repair. It is a practical step-by-step approach for the beginning technician to the art of troubleshooting techniques on all the electronic equipment available in the electronics laboratory.

ET 390 Microprocessor Systems - Troubleshooting 3 Units

Formerly: ET 80

Prerequisite: ET 340 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
18 hours Lecture; 108 hours Laboratory
This course will focus on the principles of microprocessor system control and troubleshooting. Study will include measurement transducers, analog-to-digital converters, power supplies and power users. All concepts processes will be coordinated by a microprocessor to perform a desired function.

ET 400 Microwave Communications Techniques 4 Units

Formerly: ET 82

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course is a study of electromagnetic waves and antennas. The course will present types of microwave generators, microwave communications systems, antenna guidance systems. The use of lasers and fiber optics in communications systems and as a source of high tech energy control will also be presented.

ET 410 Transmitter Fundamentals 5 Units

Formerly: ET 84

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This is a fundamental course in AM/FM and single side-band transmitters. The course will present students with preparation for employment in the communications industry. It will include instruction in adjustment and tuning of transmitters. Students will be presented with symptoms of malfunctions and remedies in troubleshooting transmitters.

ET 490 Advanced Student Projects Laboratory 2 Units

Formerly: ET 83

Prerequisite: None
Advisory: Completion of ET 300 and 301; Concurrent enrollment in ET 340.
Acceptable for credit: CSU
108 hours Laboratory
This course provides an opportunity for students to pursue advanced projects selected by the Electronics Technology Department staff. This course may be taken twice for credit.

ET 494 Topics in Electronics Technology .5-5 Units

Formerly: ET 93

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This is a specialized course developed in cooperation with industry to address emerging training needs. This course may be repeated for credit provided there is no duplication of topics. Units are awarded on the basis on .5 unit for each 9 hours of lecture or 27 hours of lab.

ET 498 Work Experience in Electronics Technology 1-4 Units

Formerly: ET 98

Prerequisite: None
72 hours Lecture
See Work Experience.

Engineering ENGR

Division of Mathematics/Statistics & Engineering

Anne E. Licciardi, Interim Dean

South Gym 220

916-558-2202

Career Opportunities:

This program gives students the opportunity to complete the lower-division coursework in preparation for transfer to a four-year program in engineering. Engineering careers include aerospace, architectural, chemical, civil, computer, electrical and mechanical engineering.

The lower-division Engineering requirements vary between universities and within majors for each university. With careful planning, students can complete the requirements for transfer in two years if starting at the first calculus course level. Students should have college algebra, geometry, trigonometry, and pre-calculus to be eligible for calculus, Mathematics 400.

Major Courses:

MATH 400, 401, 402, 420, 410*;
PHYS 410, 420, 430*;
CHEM 400, 401*;
ENGR 400, 310*, 312*, 405*, 412*, 422*

*Not required by all majors. Students should verify their planned transfer program at their chosen four-year institution or meet with an Engineering faculty member or an SCC Transfer Center representative.

Engineering

The courses listed are those required to qualify for junior standing in engineering at four-year institutions offering baccalaureate degrees. Because the entry requirements among institutions vary, students intending to transfer to those institutions offering four-year engineering programs should carefully plan their programs with the advice of counselors and Engineering Department faculty. Students should complete the prerequisites shown before taking the specified course. However, in some cases, with the approval of the instructor, they may be concurrently enrolled in a course that is listed as a prerequisite.

CELEBRATING 90 YEARS

Engineering (ENGR)

ENGR 300 Introduction to Engineering 1 Unit

Formerly: ENGR 2

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture
This course provides an introduction to the different engineering disciplines and careers, the role of the engineer in society, the engineering approach to problem solving, the design process, and engineering ethics. The development of effective communication and study skills required of engineers is emphasized. This course is required of most engineering majors.

ENGR 306 Basic Technical Drafting (same as EDT 300) 3 Unit

Formerly: ENGR 51

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the first course in drafting for drafting and engineering students. Studies include topographics, orthographics, pictorial drawings, sections, conventions, lettering, dimensioning, working drawing development, instrument care and use, and sketching. Credit may be earned for EDT 300 or ENGR 306, but not for both. Students are expected to provide their own drafting equipment.

ENGR 310 Engineering Survey Measurements 4 Units

Formerly: ENGR 10

Prerequisite: MATH 334 with a grade of "C" or better.
Advisory: Completion of or concurrent enrollment in a basic drafting course such as ENGR 306 or ENGR 312.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course covers the basic fundamentals of surveying for engineers. This includes the theory and practice of measurements for distance, elevations and angles, analysis and adjustment of errors (systematic and random), and traverse calculation and adjustments. Additional topics include discussions on profiles and cross-sections, horizontal curves, and vertical curves. This course has an inside lecture component as well as a required outside field component. This course is designed for engineering students and is usually required for civil engineering majors depending on the transfer institution.

ENGR 312 Engineering Graphics 3 Units

Formerly: ENGR 27

Prerequisite: None
Advisory: Knowledgeable in the use of a personal computer.
Acceptable for credit: UC/CSU
36 hours Lecture; 72 hours Laboratory
Fundamental training is provided in the use of hand drawing instruments and Computer Aided Design/Drafting (CADD) software to analyze, interpret, and solve engineering problems. Topics covered include elements of drafting, descriptive geometry, multi-view drawing, design process, and solution of engineering problems, culminating in a design project.

ENGR 400 Introduction to Electrical Circuits and Devices 3 Units

Formerly: ENGR 17

Prerequisite: PHYS 420 with a grade of "C" or better.
Advisory: MATH 420.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides the engineering student with the basic fundamentals of electrical circuit theory and analysis. DC and sinusoidal circuits; the following circuit elements are covered: resisters, capacitors, inductors, independent sources, and dependent sources. Topics include circuit analysis techniques, sinusoidal analysis, phasors, Thevenin/Norton equivalence, natural and step response of first-and second-order circuits, three-phase analysis, complex power, and operational amplifiers.

ENGR 405 Engineering Problem Solving 3 Units

Formerly: ENGR 5

Prerequisite: Completion of MATH 401 with a grade of "C" or better or concurrent enrollment in MATH 401.
Advisory: Knowledgeable in the use of a personal computer.
Acceptable for credit: UC (CISP 342 or ENGR 405, maximum one course)/CSU
36 hours Lecture; 54 hours Laboratory
This course provides an introduction to the use of computers in solving engineering problems using MATLAB. Students will learn to use basic programming techniques including program control, relational/logical operators, selection scripting, and file management as they implement computational solutions.

ENGR 412 Properties of Materials 3 Units

Formerly: ENGR 45

Prerequisite: CHEM 400 and PHYS 410 with grades of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course covers atomic and crystal structures and mechanical, electrical, and magnetic properties of engineering materials. Also covered are the steady and non-steady state diffusion, phase diagram analysis, heat treatment of metals, and corrosion. Laboratory exercises cover both destructive and non-destructive testing of materials.

ENGR 422 Engineering Mechanics, Statics 3 Units

Formerly: ENGR 35

Prerequisite: MATH 401 and PHYS 410 with grades of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture
This is the first course in engineering mechanics. Topics in this course include two and three dimensional force system analysis using vector techniques, moments and couples in two and three dimensions, centroids and moment of inertia, friction, forces in beams, and truss analysis. This course is required for Mechanical, Civil, Aeronautical engineering transfer students and by some electrical engineering programs. Contact an engineering instructor and/or the transfer center for specific transfer institution requirements.

ENGR 494 Topics in Engineering .5-4 Units

Formerly: ENGR 22

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in engineering. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.

ENGR 498 Work Experience in Engineering 1-4 Units

Formerly: ENGR 48

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
See Work Experience.

Engineering Design Technology
EDT SURVY

Associate in Science Degree

Career Certificate

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Architectural/Structural Drafting, Degree and Career Certificate

Electric (Power/Lighting Systems), Degree and Career Certificate

Mechanical (HVAC/Plumbing Systems), Degree and Career Certificate

HVAC Systems Design, Degree and Career Certificate

Surveying (Geomatics), Career Certificate

Career Opportunities

This program is designed for students pursuing entry level employment in architectural, electrical and mechanical engineering, and commercial construction drafting fields. Depending on their technical field of interest and capabilities, students who complete the program may find employment in any of the following types of jobs: Engineering Aide I, Engineering Aide II, Drafting Aide I, Drafting Aide II, Junior Drafter, Architectural Drafter, Mechanical Drafter/Designer Trainee, Electrical Drafter/Designer Trainee, Structural Drafter/Designer Trainer, Topographical Drafter/Designer Trainee, General Construction Drafter/Designer Trainee, General Construction Estimator Trainee, Computer Aided Drafter or Technical Sales representatives.

Recommended High School Preparation

Completion of English and general mathematics. It is desirable, but not required, that a student complete courses in drafting, industrial arts shop courses, one year of algebra, plane geometry, general science and introduction to computers.

Program Information

Engineering Design Technology is studied in lecture and drafting practice classes. Mathematics, science, and engineering fundamentals, which are all related to the content of this program, are studied in the Engineering Design Technology program or through recommended elective courses. General Education courses complete the recommended classes for the Engineering Design Technology curriculum.

Program Costs

Normal student expenses for textbooks, personal equipment and supplies may be required. These expenses may vary each semester. If these expenses create a financial burden, students should consult the Financial Aid Office for possible assistance.

Admission to Program

Orientation interview with a member of the Engineering Design Technology staff is recommended. For information call (916) 558-2232 or 558-2491.

CELEBRATING 90 YEARS

Required Program	Units
EDT 300, Basic Technical Drafting (same as ENGR 306)	3
EDT 310, Computer Aided Drafting	3
EDT 320, Architectural/Structural Drafting	4
EDT 330, Air Conditioning, Plumbing and Piping Design	3
EDT 332, Air Conditioning, Plumbing and Piping Design Documents	4
EDT 350, Electrical and Electronics Drafting/Design Problem Solving	3
EDT 352, Electrical and Electronics Drafting Design	4
Select seven (7) units from the following: EDT 302, 312, 314, 336, 340, 342, 356; MET 220 (same as TECH 103); SURVY (Geomatics) 300, 310	7
Total Units Required	**31**

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Transfer Students
Students who, after completing this program, are planning to continue specialization in this field by transferring to a four-year college, should consult the Requirements of Transfer Institutions section in this catalog and the engineering or related major sections of the specific catalog for the institution to which they wish to transfer. Consultation with an SCC counselor is advised.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Architectural/Structural Drafting

Associate in Science Degree
Career Certificate

This degree and career certificate option is designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Required Program	Units
EDT 300, Basic Technical Drafting (same as ENGR 306)	3
EDT 310, Computer Aided Drafting	3
EDT 312, Intermediate Computer Aided Drafting	3
EDT 320, Architectural and Structural Drafting	4
EDT 314, Advanced Computer Assisted Drafting and Design	2
Select six (6) units from the following: EDT 302, 352, 332, 340, 342, 350, 356, 330, 336, 498; MET 220 (same as TECH 103); MATH 334; SURVY (Geomatics) 300, 310.	6
Total Units Required	**21**

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent as determined by the Engineering Design Technology Department.

Electric (Power-Lighting Systems)

Associate in Science Degree
Career Certificate

Designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Required Program	Units
EDT 300, Basic Technical Drafting (same as ENGR 306)	3
EDT 350, Electrical and Electronics Drafting/Design Problem Solving	3
EDT 352, Electrical and Electronics Drafting Design	4
EDT 310, Computer Aided Drafting	3
EDT 312, Intermediate Computer Aided Drafting	3
EDT 314, Advanced Computer Assisted Drafting and Design	2
Select seven (7) units from the following: EDT 302, 356, 340, 342, 332 , 320, 330, 336, 498; MET 220; MATH 334; SURVY (Geomatics) 300, 310.	7
Total Units Required	**25**

Associate of Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent as determined by the Engineering Design Technology Department.

HVAC Systems Design

Associate in Science Degree
Career Certificate
CADD (Heating, Ventilating, Air Conditioning)

This program is designed for students pursuing employment or upgrade in training in computer applications of heating, ventilation, and air conditioning (HVAC) systems design.

Required Program	Units
EDT 300, Basic Technical Drafting (same as ENGR 306)	3
EDT 310, Computer Aided Drafting	3
EDT 312, Intermediate Computer Aided Drafting	3
EDT 336, Air Conditioning System Design	3
Select 10 units from the following: EDT 302, 314, 330, 332, 498; MET 220 (same as TECH 103); TECH 100, 300 (same as ENGR 308).	10
Total Units Required	**22**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Mechanical (HVAC/Plumbing Systems)

Associate in Science Degree
Career Certificate

Designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Required Program	Units
EDT 300, Basic Technical Drafting (same as ENGR 306)	3
EDT 310, Computer Aided Drafting	3
EDT 312, Intermediate Computer Aided Drafting	3
EDT 332, Air Conditioning, Plumbing and Piping Design Documents	4
EDT 330, Air Conditioning, Plumbing and Piping Design	3
EDT 314, Advanced Computer Assisted Drafting and Design	2
Select three (3) units from the following: EDT 302, 340, 342, 350, 352, 320, 336, 498; MET 220 (same as TECH 103); MATH 334; SURVY (Geomatics) 300, 310.	3
Total Units Required	**21**

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Surveying (Geomatics) SURVY

Career Certificate

Program Information: The curriculum provides the student with instruction in survey theory and fundamentals of office and field practice. The objective is to prepare students for employment as described above.

Career Opportunities: Students may find employment in field jobs as surveyor assistants to do specific jobs as rod, chain, level and instrument person and notekeeper. In office jobs, students may do survey computations, draw maps of property lines, topographic maps, profiles of construction sites, and compute acreage.

Employers are private survey and engineering firms and government agencies throughout the United States. Job titles are Boundary, Technicians, Survey Technicians, Engineering Technicians, Engineering Aide, and Survey Aide.

Recommended High School Preparation: Courses in algebra, trigonometry, physics, and geography.

Material is sufficient, when coupled with the legally required experience, to prepare the student for the State licensing examinations conducted by The Board of Registration for Professional Engineers.

There are numerous specialties in survey employment and early counseling is suggested to help select the proper optional classes.

Required Program	Units
SURVY 300, Elementary Surveying	4
SURVY 320, Advanced Survey	4
SURVY 330, Special Surveying Projects	4
SURVY 340, Photogrammetry	3
SURVY 350, Boundary Control and Legal Principles	4
SURVY 352, Evidence and Procedures for Boundary Location	4
Total Units Required	**24**

Suggested Electives
SURVY 310, 360; CISC 310; GEOG 300; GEOL 345; PHYS 310; TECH 103 (same as MET 220), 310, 315.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Transfer Students
The required courses are consistent with that four-year institutions offering surveying. Students desiring four years to further their survey education are cautioned to complete the mathematics and science requirements of the four-year college. Consultation with an SCC counselor is advised.

Engineering Design Technology (EDT)

EDT 300 Basic Technical Drafting (Same as ENGR 306) 3 Units

Formerly: EDT 51

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the first course in drafting for drafting and engineering students. Studies include topographics, pictorial drawings, orthographics, sections, conventions, lettering, dimensioning, working drawing development, instrument care and use, and sketching. Credit may be earned for EDT 300 or ENGR 306, but not for both. Students are expected to provide their own drafting equipment.

EDT 302 Building Trades Blueprint Reading 2 Units

Formerly: EDT 60

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
This is a course in blueprint reading and sketching related to building trades. Architectural, structural, electrical and mechanical drawings, details, and specification requirements will be examined in detail for residential, commercial and industrial construction.

EDT 310 Computer Aided Drafting 3 Units

Formerly: EDT 66

Prerequisite: None
Advisory: EDT 300 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to computer-assisted drafting and design (CADD). It covers orthographic and isometric projection concepts, utilizing CADD to produce basic technical drawings and applies the editing commands available in the software. This course is a lecture/lab type course geared to developing student comprehension of CADD software and their ability to operate the software in a professional manner in the production of Architectural and Engineering related drawings. This course may be taken two times for credit, provided that the software version has changed.

EDT 312 Intermediate Computer Aided Drafting 3 Units

Formerly: EDT 67

Prerequisite: EDT 310 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a second course in Computer Aided Drafting that emphasizes advanced CADD commands and design graphics drawing principles; helps develop job-applicable speed and competence on AutoCAD software. This course offers in-service training and upward mobility training to the professional CAD drafter. Emphasis is on in-office related production skills and program customization. This course may be taken two times for credit, provided that the software version has changed.

EDT 314 Advanced Computer Assisted Drafting and Design 2 Units

Formerly: EDT 91

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course covers advanced study in computer aided design and drafting with emphasis on construction related topics. The general concepts will also relate to other computer drafting applications. Course subject areas will include basic three-dimensional studies, customizing, and applications to drawing development.

EDT 320 Architectural/Structural Drafting 4 Units

Formerly: EDT 81

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides instruction in drafting practices involving building construction drawings and specifications and surveying practices related to construction work. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 330 Air Conditioning, Plumbing and Piping Design 3 Units

Formerly: EDT 72

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in the design of air conditioning, plumbing and piping systems. Topics include cooling and heating load calculations, zoning, system and equipment selection, ductwork systems and controls for HVAC systems; and plumbing, fire protection and industrial piping systems. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 332 Air Conditioning, Plumbing and Piping Design Documents 4 Units

Formerly: EDT 71

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides instruction in the preparation of construction drawings and specifications for air conditioning, plumbing, and piping systems. The emphasis is on preparing drawings and related documentation that meet building department and construction industry standards, using computer aided drafting applications. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 336 Air Conditioning System Design 3 Units

Formerly: EDT 78

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on the calculations of heat gain and heat loss in buildings, types of HVAC systems, equipment selection, ductwork design, environmental comfort considerations, psychrometrics, and temperature control systems. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 340 Plumbing and Piping Systems Design I 2 Units

Formerly: EDT 70A

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture
This course provides introductory level instruction in the design of water, waste, and gas piping systems for residential and commercial buildings including study of the materials, methods, codes, and practices. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 342 Plumbing and Piping Systems Design II 2 Units

Formerly: EDT 70B

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This course provides further instruction in the design of water, waste, and gas piping systems, for residential and commercial buildings including study of the materials, methods, codes, and practices. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 350 Electrical and Electronics Drafting/Design Problem Solving 3 Units

Formerly: EDT 62

Prerequisite: None
Advisory: Concurrent enrollment in EDT 352.
Acceptable for credit: CSU
54 hours Lecture
Problem solving related to electrical and electronics drafting, formula solutions, application of Ohms Law, series-parallel circuitry, basic electrical power and sizing formula, general lighting calculations. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 352 Electrical and Electronics Drafting Design 4 Units

Formerly: EDT 61

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides instruction in basic electron theory, electrical/electronic circuitry, drafting practices involving residential, commercial, industrial electrical drawings, material specifications and an introduction to printed circuit board layout. Field trips to local construction projects, existing installation or manufacturing facilities may be included. Course work involves applying calculations from EDT 350 to design basic electrical power wiring, lighting and control signal systems. This course may be taken two times for credit, provided that the software version has changed or the semester project has significantly changed.

EDT 356 Electrical Systems Design 2 Units

Formerly: EDT 69

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
This is a basic course of electrical systems for residential and commercial buildings with emphasis on practical industry, materials, methods, and codes.

EDT 494 Topics in Engineering Design Technology .5-4 Units

Formerly: EDT 92

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This specialized course has been developed in cooperation with industry to address emerging training needs. This course may be repeated no more than three times for credit, provided there is not duplication of topics.

EDT 498 Work Experience in Engineering Design Technology 1-4 Units

Prerequisite: EDT 300 and 310 with grades of "C" or better.
Corequisite: Student must have either a job or an established internship.
General Education: AA/AS Area E2
Acceptable for credit: CSU
18 hours Lecture, 0-1200 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area of Engineering Design Technology. Course content will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V papers (the student's Application, Learning Objectives, Timesheet, and Evaluations) which document the students' progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies as well as local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student

to combine practical, paid or non-paid work experience with college training. The course may be repeated when there is new or expanding learning on the job for up to 16 units.

Surveying (Geomatics) (SURVY)

SURVY 300 Elementary Surveying 4 Units

Formerly: SURVY 11

Prerequisite: None
Advisory: MATH 334 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 81 hours Laboratory
This course provides an introduction to the principles and practices of plane surveying. Survey instrumentation and methods of measuring distances, angles, and differences in elevation will be presented. Fundamental surveying methods including traversing, area computations, and use and care of electronic survey equipment will be stressed. Computation methods associated with surveying will be covered.

SURVY 310 Survey Map Production 4 Units

Formerly: SURVY 15

Prerequisite: None
Advisory: SURVY 300.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides an exposure to the special procedures and requirements unique to survey mapping. Fundamental survey drafting methods and types of maps will be stressed. Students will produce a variety of survey maps, both manually and by CAD system.

SURVY 320 Advanced Survey 4 Units

Formerly: SURVY 21

Prerequisite: SURVY 300 with a grade of "C" or better; or equivalent.
Advisory: Completion of or concurrent enrollment in MATH 334 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 81 hours Laboratory
This course focuses on real-world surveying applications such as, primary control, construction layout and staking, horizontal and vertical curves, above and underground structural staking, subdivision lotting, and street improvement construction. Introduction to boundary surveying and photogrammetric surveys, California State Plane Coordinate System, and theory of geodetic and control surveys. GPS, GIS, and electronic surveys and mapping are also introduced. Student should provide hand-held Electronic Scientific Style calculator equipped with trigonometric capabilities.

SURVY 330 Special Surveying Projects 4 Units

Formerly: SURVY 22

Prerequisite: Completion of SURVY 320 or equivalent; (Equivalency based on work experience or applicable education.)
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course focuses on real world surveying applications, construction control, layout and staking, horizontal and vertical curves, above and underground structural staking, subdivision lotting and street improvement construction. Introduction to boundary surveying and photogrammetric surveys, theory of geodetic and control surveys. Global Positioning Systems, Geographic Information System and electronic surveys and mapping are also included.

SURVY 340 Photogrammetry 3 Units

Formerly: SURVY 23

Prerequisite: SURVY 320 with a grade of "C" or better, or equivalent work experience.
Acceptable for credit: CSU
54 hours Lecture
Introduction to the theory and practice of Photogrammetry, including image systems and quality, theory of stereo photography, and orientation and design of stereo models. Design and operating principles of stereo plotting, photogrammetric and orthophoto mapping are also addressed. This course also focuses on considerations for flight and control planning, control identification techniques, advanced field completion surveys, and property line investigations. Field trips are required.

SURVY 350 Boundary Control and Legal Principles 4 Units

Formerly: SURVY 31

Prerequisite: None
Advisory: Completion of SURVY 320 or equivalent; (Equivalency based on work experience or applicable education.)
Acceptable for credit: CSU
72 hours Lecture
This course is an introduction to the legal principles, surveying, and mapping procedures used in locating boundaries and land ownership lines.

SURVY 352 Evidence and Procedures for Boundary Location 4 Units

Formerly: SURVY 32

Prerequisite: Completion of SURVY 350 or equivalent; (Equivalency based on work experience or applicable education.)
Acceptable for credit: CSU
72 hours Lecture
This is a continuation of boundary location with emphasis on procedures rather than principles. Techniques of gathering and evaluating evidence used in boundary locations and methods of presenting that evidence in the form of maps and descriptions are emphasized.

SURVY 360 Survey Business Practices 3 Units

Formerly: SURVY 82

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on surveying economics; contracts and specifications; organizing, staffing, hiring and supervision of technical personnel, surveyor-client relationships and ethics of practice.

English
ENGCW EDNED ENGLB ENGLT ENGRD ENGWR

Associate in Arts Degree

Division of Language and Literature

Albert Garcia, Dean

Rodda South 226

916-558-2325

A Major in English offers students an opportunity to take courses in literature, composition, and creative writing. It prepares students for university-level studies in English or other disciplines and also readies students for the workforce by emphasizing reading, writing, and critical thinking skills.

Required Program	**Units**
ENGWR 300, College Composition, or ENGWR 480, Honors College Composition	3
ENGWR 301, College Composition and Literature	3
ENGLT 320, American Literature	3
ENGLT 321, American Literature	3
ENGLT 310, English Literature	3
ENGLT 311, English Literature	3
Select six (6) units from the following: ENGCW 400, 410, 420, 431, 450; ENGLT 303, 304, 325, 331, 332, 334, 335, 345, 360, 380, 401, 480, 481, 494; ENGWR 302	6
Total Units Required	**24**

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by the completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Sacramento City College provides reading and composition skills courses within three levels. Each is a distinct level of development and does not necessarily provide entrance to another.

English Assessment Requirement

To place in the appropriate level of instruction, all students enrolling in English skills or composition classes are strongly advised to complete the assessment process prior to registration in any classes. An alternative is designated course completion, which will provide entrance into certain classes.

Success in Reading, Writing, and English as a Second Language (ESL)

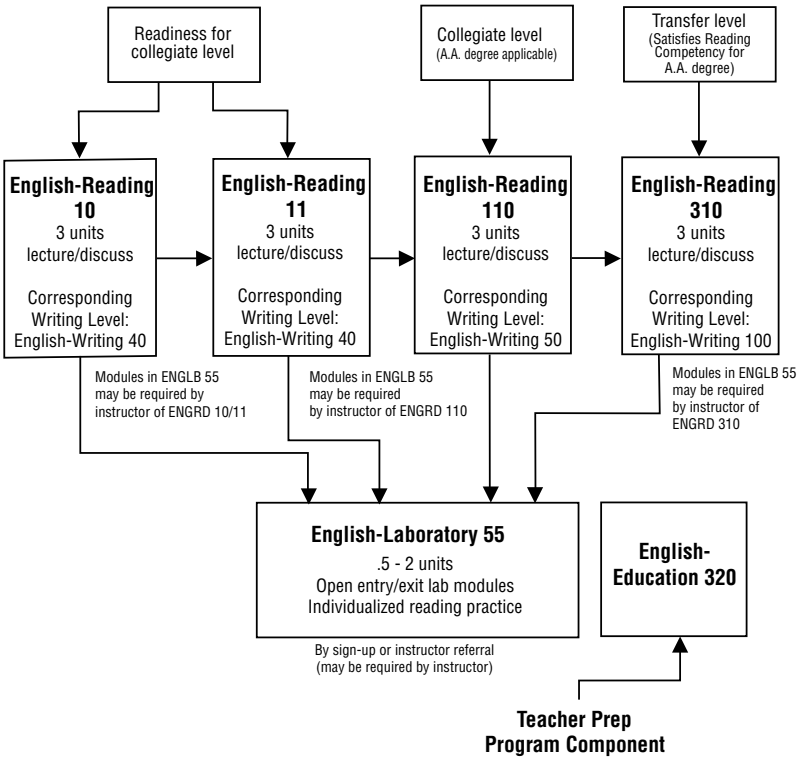
The success of our students is of utmost importance to us at Sacramento City College. For that reason, we strongly advise students to develop skills in the basics of reading and writing. By reading, we mean understanding and remembering what you read so that you will be able to learn the information in all of your textbooks. By writing, we mean spelling correctly, punctuating accurately, using the grammar of standard written English, and organizing ideas into paragraphs and essays that are clear, unified, and coherent.

For students who are non-native speakers of English, we strongly advise taking classes in our English as a Second Language program.

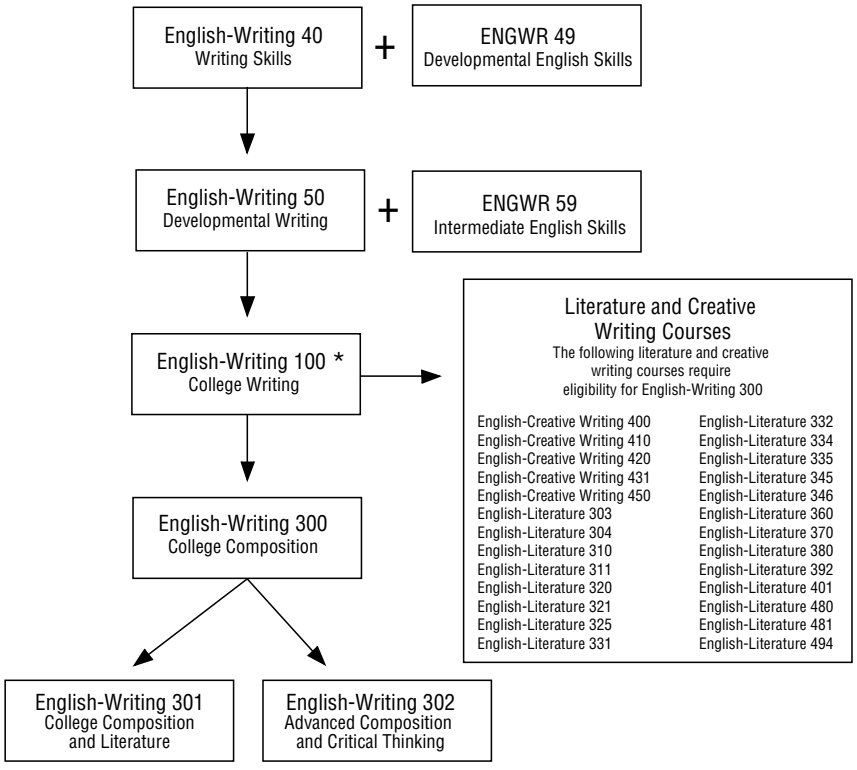
With a strong foundation in the skills of reading and writing, your opportunities for success in college-level classes will be greatly increased.

Student Literary Journal
The student literary journal, Susurrus, is annually produced by the students in ENGCW 450, a three-unit laboratory course. The journal accepts poetry, fiction, essays, photos and art by Sacramento City College students for consideration each fall; the book-quality journal is published in the spring.

Reading Curriculum



English Curriculum



* Fulfills Written Expression Competency for associate degree

English - Creative Writing (ENGCW)

ENGCW 400 Creative Writing **3 Units**

Formerly: ENGL 15

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
The course emphasizes writing of poetry, short fiction, and autobiography. It includes analysis of student work by instructor and class in a workshop atmosphere. Students explore their creative impulses through the medium of language, and not only learn the techniques of poetry, fiction and autobiography, but also develop appreciation of literature by creating it. This course may be taken twice for credit.

ENGCW 410 Fiction Writing Workshop **3 Units**

Formerly: ENGL 15A

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
This is a creative writing course designed for students who wish to concentrate on fiction writing. The course will be conducted in a workshop format, which will focus primarily on constructive, in-class analysis of students' short stories and/or novel chapters. Through lecture, discussion, assigned reading, and in-class writing exercises, students will examine critically the elements of literary creation. Students will keep a journal and prepare a portfolio of their work. This course may be taken twice for credit.

ENGCW 420 Poetry Writing Workshop **3 Units**

Formerly: ENGL 15B

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
This is a creative writing course for students who wish to concentrate on poetry writing. The workshop format will focus on analysis of poetry written by students in the class. Through lecture, discussion, assigned reading, collaborative writing projects and in-class writing exercises, students will examine literary devices in contemporary poetry and will practice revising and editing. Students will prepare a portfolio of original work. The course may be taken twice for credit.

ENGCW 431 Autobiography Writing Workshop **3 Units**

Formerly: ENGL 15E

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
This is a creative writing workshop in autobiography and creative non-fiction. The class focuses on constructive, in-class analysis of personal essays written by students. Through lecture, discussion, collaborative writing, assigned reading, out-of-class interviews, and in-class writing exercises, students will examine critically the elements of personal, ecological, multi-cultural, multi-generational, multi-disciplinary, and mythological writing. Students will interview family members and other people of personal significance, keep a journal, and prepare a portfolio of completed work. This course may be taken twice for credit.

ENGCW 450 College Literary Magazine **3 Units**

Formerly: ENGL 17

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in techniques and experience in writing, editing, and structuring the college literary magazine. Students will write, select, and edit manuscripts and graphics, discuss and design layout, process copy for printing and participate in magazine production. Students will gain experience in marketing, distribution and other matters related to production management. The class may be taken four times for credit.

English - Education (ENGED)

ENGED 305 Structure of English **3 Units**

Formerly: ENGL 2

Prerequisite: ENGWR 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is a study of the structure of English grammar systems, especially as they relate to writing. It includes the study and practice of traditional and transformational grammar, standard usage, with emphasis on the relationship of grammar to writing (2000 word writing requirement); it also includes the study of the history of the English language and varied methods of language acquisition among the culturally diverse population in California schools. It is designed for those who plan to teach or who are especially interested in grammar as it relates to writing. ENGED 305 meets the CSU requirement for Liberal Studies and English majors.

ENGED 320 Service Learning: Tutoring Elementary Students in Reading 3 Units

Formerly: ENGL 10

Prerequisite: ENGRD 110 with a grade of "C" or better or placement through the assessment process.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers students an opportunity to learn and practice basic methods of tutoring elementary children to read. Students will meet on campus for the first part of the semester to be trained, and then will be assigned to a elementary school where they will have in-depth practice tutoring elementary children who are reading below grade level. This course is one of the two required field experience courses for the CSUS Blended Teacher Preparation. Prior to beginning work in the schools, students may be required to be fingerprinted and show proof of a negative TB test.

English - Laboratory (ENGLB)

ENGLB 55 Individualized Reading Skills .5-2 Units

Formerly: ENGL 267

Prerequisite: None
9-108 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction of reading skills ranging from word attack skills through critical reading. There is a strong emphasis on content-based reading. Students meet with an instructor for diagnosis of reading needs and an agreed upon prescription is then determined. Students are awarded units based on the successful completion of work assigned and post testing. One-half unit requires 27 hours of lab time. Students may earn .5 to 2 units per semester and repeat this class until reaching a maximum of six units. This lab class may be required by instructors of ENGRD 10, 11, 110, and 310 for students needing additional skills work and may be added until the end of the twelfth week. It will be graded on a Credit/No Credit basis.

English - Literature (ENGLT)

ENGLT 303 Introduction to the Short Story 3 Units

Formerly: ENGL 42

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to introduce students to the art of the short story and critical analysis. It will provide a history of the short story and distinguishing characteristics of the genre. The emphasis will be on the connections between literature and the human experience. The purpose will be to help students develop an understanding of and an appreciation for literature.

ENGLT 304 Introduction to Poetry 3 Units

Formerly: ENGL 43

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
Designed to introduce students to poetry, ENGLT 304 includes analysis and appreciation of poems by a wide variety of traditional and contemporary poets. This course focuses on how to respond as a reader and how to help give poetry meaning in the light of one's accumulated feelings, interests, and ideas.

ENGLT 310 English Literature 3 Units

Formerly: ENGL 35

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys significant works in English literature from Beowulf through the works of Alexander Pope. This course requires critical reading of poetry, novels, essays, and plays as well as written analysis and significant research about these texts. Other works and writers include Sir Gawain and the Green Knight, Geoffrey Chaucer, Edmund Spenser, William Shakespeare, Christopher Marlowe, John Milton, John Donne, Renaissance lyric poets, Aphra Behn, and Jonathan Swift.

ENGLT 311 English Literature 3 Units

Formerly: ENGL 36

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course offers a survey of significant works in English literature from Romanticism in the 18th century to post colonialism in the 20th century. Students will read poetry, novels, plays and nonfiction prose by a variety of authors, including Wordsworth, Coleridge, the Brownings, Dickens, Yeats, Joyce, Woolf, Ezekiel and Walcott. Field trips may be required.

ENGLT 320 American Literature 3 Units

Formerly: ENGL 30

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys representative works in American literature from approximately 1493-1865. Readings and discussion will highlight the multicultural nature of American literature and society. Students will read a variety of stories, novels, autobiographical narratives and poetry by such authors as Edgar Allen Poe, Nathaniel Hawthorne, Fredrick Douglass, Anne Bradstreet, Washington Irving, Harriet Jacobs, Herman Melville and Phillis Wheatley.

ENGLT 321 American Literature 3 Units

Formerly: ENGL 31

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys representative works in American literature from approximately 1865 to the present. Readings and discussion will highlight the multicultural nature of American literature and society. Students will read a variety of stories, novels, plays and poetry by such authors as Mark Twain, Henry James, Kate Chopin, Ernest Hemingway, F. Scott Fitzgerald, Langston Hughes, Zora Neal Hurston, Black Elk, Richard Wright, Toni Morrison, Sandra Cisneros, and Maxine Hong Kingston.

ENGLT 325 Modern American Literature of Social Criticism 3 Units

Formerly: ENGL 32

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
Students read and discuss selected American novels, poems, and plays dealing explicitly with social problems and attitudes. Emphasis will be on novels of literary or historical importance, particularly novels. Topics may include, but will not necessarily be limited to, such problems or themes as industrialization, urbanization, poverty, race relations, sexual equality, and war. Students will gain greater insight into and understanding of the American mosaic through this course in which they will read at least four full-length novels.

ENGLT 327 Literature of California 3 Units

Prerequisite: ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Areas C, F
Acceptable for credit: CSU
54 hours Lecture
This course examines the literature of California in the context of its ethnic, social, political, and geographical history. The course will examine a wide range of literature (fiction, non-fiction, poetry, memoirs, and essays) including but not limited to Native American legends, early California exploration accounts, prose and poetry from the California heartland, childhood memoirs, and more, with emphasis on what makes the California experience unique.

ENGLT 331 African-American Literature (1730-1930) 3 Units

Formerly: ENGL 40A

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
ENGLT 331 is a study of major African American authors and their literature from 1730-1930. This course includes critical reading of slave narratives, autobiographies, essays, novels, short stories, poetry, and folklore. Some of the writers studied include Lucy Terry, Jupiter Hammon, Fredrick Douglass, Phillis Wheatley, David Walker, William Wells Brown, Frances Harper, Booker T. Washington, W. E. B. DuBois, Charles Chestnut, Alaain Locke, Zora Neale Hurston, and many others. Field trips may be required.

ENGLT 332 African-American Literature (1930-Present) 3 Units

Formerly: ENGL 40B

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
English 332 is a study of major African American authors and their literature from 1930-present. This course includes critical reading of autobiographies, essays, novels, short stories, poetry, and folklore. Some of the writers studied include Richard Wright, Ann Petry, Gwendolyn Brooks, Amiri Baraka, Owen Dodson, August Wilson, Rita Dove, J. California Cooper, BeBe More Campbell, Mari Evans, Ralph Ellison, Maya Angelou, Toni Morrison, Alice Walker, bell hooks, and many others. Field trips may be required.

ENGLT 334 Asian-American Literature 3 Units

Formerly: ENGL 37B

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys autobiographies, fiction, drama, and poetry written by Asian Americans. The course focuses primarily on works written by Filipino-, Chinese-, Japanese-, and Korean-Americans but also includes the work of other Pan-Asian American writers. Students explore the ways the experience of being Asian American in America has shaped the literature and examine the differences and similarities of these experiences across cultures, generations, and genders. Field trips may be required.

ENGLT 335 Latino, Mexican-American, and Chicano Literature 3 Units

Formerly: ENGL 37D

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys U.S. literature (prose, poetry, drama, creative non-fiction) authored by Latino, Mexican-American, and Chicano writers. Emphasizing the historical and cultural roots of this body of literature, the course examines the contested meanings of such concepts as: Latino, Mexican-American, and Chicano identity; the relationship between social/political activism and literary expression; immigration and the border; and gender relations and sexuality within the many Latino communities. Special attention will be paid to literary forms such as the corrido, the testimonio, and the Chicano theater movement. Knowledge of some Spanish is helpful, but not required. Field trips may be required.

ENGLT 345 Mythologies of the World 3 Units

Formerly: ENGL 26

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course offers a thematic approach to myth and legend from a variety of cultures, stressing the following types of stories: beginnings of the world, creation of living creatures, explanation of

natural phenomena, relationships between gods and mortals, and deeds of superhumans, destruction, death and afterlife.

ENGLT 346 Latin American Literature 3 Units

Formerly: ENGL 37E

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the literature of Latin America. The course is taught in English and the texts will be read in translation. Beginning with pre-Columbian literature, the course examines the relationship of history and culture to literary production. Literary movements such as the Boom, the New Latin American Cinema, and magical realism will be studied. Major authors may include Nobel Prize winners Pablo Neruda, Gabriel García Márquez, Rigoberta Menchú, and Octavio Paz. The course examines both literary texts and films. Knowledge of some Spanish is helpful, but not required. Field trips may be required.

ENGLT 360 Women in Literature 3 Units

Formerly: ENGL 27

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys literature by and/or about women. It emphasizes American and British writers and the multicultural nature of the women's canon. Readings may include literature from any nation, culture, or historical period and focus on a comparative analysis of gender issues.

ENGLT 370 Children and Literature 3 Units

Formerly: ENGL 39

Prerequisite: Eligibility for ENGWR 100.
Acceptable for credit: CSU
General Education AA/AS Area C
54 hours Lecture
This course is a survey of the best literature, past and present, created for children, and of the criteria for selecting, evaluating, and discussing children's literature. It includes discussion of the history of children's literature and of current issues such as censorship, literacy, and multicultural diversity. This course is intended for prospective teachers, early childhood education (ECE) majors, librarians, and anyone who is or will be in frequent contact with children. It includes reading to children in a formal group situation.

ENGLT 380 Introduction to Shakespeare 3 Units

Formerly: ENGL 47

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
"All the world's a stage, and all the men and women merely players." This course will guide the student through interpretation of several of Shakespeare's most popular plays and sonnets by taking a close look at his language, themes, and values to illustrate Shakespeare's relevance in today's world. By bringing their own perspectives to the texts, students will appreciate the vitality and universality of Shakespeare's works.

ENGLT 392 Science Fiction and Fantasy 3 Units

Formerly: ENGL 38

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to significant works in science fiction and fantasy literature. Students will explore connections between the literature and concerns about social, ethical and scientific developments or trends. Authors may include Octavia Butler, William Gibson, Aldous Huxley, Ursula LeGuin, Neal Stephenson, J.R.R. Tolkein, and Kurt Vonnegut.

ENGLT 400 Introduction to Film (Same as TA 310) 3 Units

Formerly: ENGL 22A

Prerequisite: Eligibility for ENGWR 100 and ENGRD 110 or ESLR 320 and ESLW 320 or placement through the assessment process.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores the artistic, business, and social elements of modern film. It examines the elements that go into making films: acting, directing, cinematography, writing and editing. It investigates the techniques used to manipulate the audience into fear, laughter and sadness; and compares the commercial box office hit and "movie star" to enduring artistic films and actors. The class will view and analyze films to evaluate filmmaking techniques and the impact of films and the movie business on society. This course is cross listed with TA 310. It may be taken only once for credit as TA 310 or as ENGLT 400, but not both.

ENGLT 401 Women in Film and Literature 3 Units

Formerly: ENGL 22

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
From its earliest days, Hollywood has played an important role in shaping and reflecting cultural assumptions, myths, and fears. This course examines the underlying messages about race and gender in Hollywood's portrayal of women. The course also compares and contrasts representation of different groups of women, including minority and marginalized, in independent and experimental films. In addition to viewing a variety of film genres, the reading assignments include works of fiction and essays from sociology, psychology, linguistics, and critical theory.

ENGLT 403 Film Adaptations 3 Units

Prerequisite: ENGWR 100 with a "C" or better, concurrent enrollment in ENGWR 100, appropriate placement through the English assessment process, or eligibility for ESLR 340 and ESLW 340.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the process, pitfalls, and successes of adapting literary, stage, and previous film material into films. The course will discuss faithful and unfaithful adaptations, reading the original texts and viewing the film with an awareness of their historical and

cultural contexts. The course analyzes intention, creative distinctions, and the limits and strengths of each medium.

ENGLT 480 World Literature: Antiquity to the Early Modern World - Honors **3 Units**

Formerly: ENGL 23H

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Enrollment Limitation: *Eligibility for the Honors Program.*
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a comparative study of works that have made important contributions to world literature. Students learn to recognize and explain developmental stages and important themes in representative works written from antiquity to the early modern period and to analyze multicultural issues the works address. Students analyze literary expressions of values, ideas, and multicultural issues typical of major world cultures. An important purpose of the course is to examine significant aspects of culture, social experiences, and contributions of non-western cultures. The class is conducted as a seminar in which students give at least one oral presentation and write a minimum of 6,000 words, including at least two textual analyses and one research paper.

ENGLT 481 World Literature: Seventeenth Century to Present - Honors **3 Units**

Formerly: ENGL 24H

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Enrollment Limitation: *Eligibility for the Honors Program.*
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a comparative study of works that have made important contributions to world literature. Students learn to recognize and explain developmental stages and important themes in representative works written from the seventeenth-century to the present and to analyze multicultural issues the works address. Students analyze literary expressions of values, ideas, and multicultural issues typical of major world cultures. An important purpose of the course is to examine significant aspects of culture, social experiences, and contributions of non-western cultures. The class is conducted as a seminar in which students give at least one oral presentation and write a minimum of 6,000 words, including at least two textual analyses and one research paper.

ENGLT 494 Topics in English - Literature **3 Units**

Formerly: ENGL 25

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course is scheduled as needed under a title describing specific content. Students study the works of a significant writer or group of writers, or of work on one theme, region, vocation, or human experience. Possible titles: Death in Literature, The Literature of the Occult, Film and Literature, The Hero in Fiction, The Love Story, The Literature of War. Not recommended as substitute for genre or survey courses. May be taken twice for credit.

English - Reading (ENGRD)

ENGRD 10 Basic Reading Skill Development **3 Units**

Formerly: ENGL 200A

Prerequisite: None
54 hours Lecture
Non-degree Applicable
This course provides competency-based instruction for improving basic word attack, literal comprehension, vocabulary development, dictionary skills, and word parts. The course is graded A-F and may be taken twice for credit. Completion of modules in ENGLB 55 may be required by the instructor.

ENGRD 11 Reading Skill Development **3 Units**

Formerly: ENGL 200B

Prerequisite: ENGRD 10 with a grade of "C" or better; or placement through the assessment process.
Advisory corequisite: ENGWR 40.
54 hours Lecture
Non-degree Applicable
This course provides competency-based instruction for improving skills basic to all reading. It involves intensive work with literal comprehension, beginning inferential comprehension, vocabulary development, and study skills, including practice with various kinds of reading materials and strategies. This course is graded A-F and may be taken twice for credit. Completion of modules in ENGLB 55 may be required by the instructor.

ENGRD 110 Comprehension Strategies and Vocabulary Development For College **3 Units**

Formerly: ENGL 71

Prerequisite: ENGRD 11 with a grade of "C" or better; or placement through the assessment process.
Advisory: ENGWR 50 with a grade of 'C' or better.
54 hours Lecture
This course is designed to develop efficient reading skills required of community college students. Areas of concentration include vocabulary development, literal and inferential comprehension skills, and study reading as applied to fiction, non-fiction, and textbooks. Individual work in the Reading Lab may be required by the instructor. This course may be taken twice for credit.

ENGRD 310 College Analytical and Speed Reading **3 Units**

Formerly: ENGL 4

Prerequisite: ENGRD 110 with a grade of "C" or better; or placement through the assessment process.
Advisory: Completion of ENGWR 50 and LIBR 318 with grades of "C" or better.
AA/AS: Reading Competency
Acceptable for credit: CSU
54 hours Lecture
This course covers theory and practice of advanced critical reading skills and strategies needed for college level texts with emphasis on the following: critical and analytical evaluation of printed material, vocabulary development, proficient comprehension skills,

development of flexible reading rate and speed, and application in textbook, fiction, and nonfiction reading. One or more additional hours per week may be required in the Reading Lab.

English - Writing (ENGWR)

ENGWR 40 Writing Skills — 3 Units

Formerly: ENGL 255

Prerequisite: None
Corequisite: ENGWR 49 or a grade of "CR" in ENGWR 49 in a previous semester.
Advisory: Concurrent enrollment in ENGRD 11.
54 hours Lecture
Non-degree Applicable
This basic writing course offers individualized and group instruction for students who need concentrated work on developing their writing skills. Each student writes a minimum of 1,500 words divided into at least six writing assignments (including a minimum of two in-class writings). Reading is used to stimulate writing. Principles of basic grammar, spelling, capitalization, and punctuation are included, as well as effective sentence structure and basic formal paragraph development. Students must have passed ENGWR 49 with "CR" or be enrolled concurrently in ENGWR 49. ENGWR 40 may be taken twice for credit.

ENGWR 49 Developmental English Skills — 2 Units

Prerequisite: None
36 hours Lecture
Non-degree Applicable
This course offers individualized, guided, self-paced learning for students to practice basic grammar, punctuation, usage, spelling, sentence and paragraph-writing skills. Students take this course concurrently with ENGWR 40. This course is also open to other students seeking help to improve their writing and/or grammar skills. Students complete a required number of assignments designed to help them master specific writing skills. This course is Credit/No Credit.

ENGWR 50 Developmental Writing — 3 Units

Formerly: ENGL 256

Prerequisite: ENGWR 40 with a grade of "C" or better; or placement through the assessment process.
Corequisite: ENGWR 59 or a grade of "CR" in ENGWR 59 in a previous semester.
Advisory: Concurrent enrollment in ENGRD 110 and/or ENGLB 55.
54 hours Lecture
Non-degree Applicable
This developmental writing course offers individualized and group instruction for students who need to improve their ability to write increasingly complex and varied formal paragraphs and to advance to the writing of short essays. Each student writes a minimum 2,500 words divided into at least twelve writing assignments (formal and informal, to include paragraphs, short essays, and in-class, timed writings). Principles of basic grammar, effective sentence structure, formal paragraph, and short essay development are included. Reading is used to stimulate writing. Students must have passed ENGWR 59 with a "CR" or be enrolled concurrently in ENGWR 59. ENGWR 50 may be taken twice for credit.

ENGWR 59 Intermediate English Skills — 2 Units

Prerequisite: None
36 hours Lecture
Non-degree Applicable
The course offers individualized, guided, self-paced instruction for students to practice usage, syntax, sentence-, paragraph- and essay-writing skills. Students take this course concurrently with ENGWR 50. The course is also open to students enrolled in ENGWR 100 or ENGWR 300 and to other students seeking to improve their writing and/or grammar skills. Students complete assignments designed to help them master specific writing skills. This course is Credit/No Credit.

ENGWR 100 College Writing — 3 Units

Formerly: ENGL 57

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 50 with a grade of "C" or better.
Advisory: Concurrent enrollment in ENGRD 310, ENGRD 110, and/or ENGLB 55; concurrent enrollment in ENGWR 59.
General Education: AA/AS Area D1 and writing competency
54 hours Lecture
This writing course uses individualized and group instruction to help students improve critical thinking and writing skills. Each student writes a minimum of 6,000 words including at least TWO in-class midterms and a departmental final exam. Writing assignments are often based on analysis of readings. The course prepares students for college composition and also satisfies graduation requirements. Instructors may require some students to complete additional individual work in the ENGWR 59. ENGWR 100 may be taken twice for credit.

ENGWR 300 College Composition — 3 Units

Formerly: ENGL 1A

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: Concurrent enrollment in ENGWR 59; completion of ENGRD 310.
General Education: AA/AS Area D1 and writing competency
Acceptable for credit: UC (ENGWR 300 or 480, maximum one course)/CSU
54 hours Lecture
This writing course emphasizes reading, writing, and critical thinking skills that are essential for successful completion of a four-year college program. Students will write a minimum of 8,500 words divided among 6-8 essays, including at least one research paper and one in-class essay. Instructors may require some students to complete individual work in the ENGWR 59.

ENGWR 301 College Composition and Literature **3 Units**

Formerly: ENGL 1B

Prerequisite: ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Areas C, D1
Acceptable for credit: UC/CSU
54 hours Lecture
ENGWR 301 is an introduction to critical thinking and writing about four major genres of literature: poetry, drama, short story, and novel. In the course, students: 1) further their study and practice in analytical reading and writing; 2) cover principles of logic such as inductive and deductive reasoning, recognizing logical fallacies, and suspending judgment; 3) learn to apply the conventions of literary criticism and to analyze, interpret, and explicate literary works. Students are required to write a minimum of 6,000 words presenting reasoned arguments of literary texts.

ENGWR 302 Advanced Composition and Critical Thinking **3 Units**

Formerly: ENGL 1C

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS area D1
Acceptable for credit: UC/CSU
54 hours Lecture
This course further develops analytical skills through writing and discussion. It examines methods by which people are persuaded to think believe, and/or act. It also includes analyses of arguments or expressions of opinions for their validity and soundness. Finally, it focuses on critically assessing, developing and effectively expressing opinions on issues. It emphasizes thinking clearly and organizing thought carefully by using principles of logic. This course includes writing a minimum of 6,500 words.

ENGWR 330 Writing for Publication (Same as JOUR 340) **3 Units**

Formerly: ENGL 14A

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
54 hours Lecture
This is an introductory course in writing non-fiction for publication. Emphasis will be on developing a saleable magazine article; finding ideas; analyzing magazines; writing a query letter; researching and interviewing; organizing, writing, and illustrating an article.

ENGWR 330.1 Writing for Publication: Writing and Editing Concentration (Same as JOUR 340.1) **1.5 Units**

Formerly: ENGL 14C

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in writing and editing non-fiction articles for publication. The course will emphasize audience analysis, researching facts, conducting interviews, organizing articles, determining focus, preparing drafts, editing and rewriting. Students will have the opportunity to write a variety of types of articles and will be encouraged to prepare these for sale. Particular concentration will be on improving writing style, learning new styles and forms, looking for weaknesses in writing, developing an eye for areas that could be stronger, and learning how to rewrite. Students will learn copyediting and proofreading, and will get ample practice to make them more confident about editing their work.

ENGWR 330.2 Writing for Publication: Marketing Concentration (Same as JOUR 340.2) **1.5 Units**

Formerly: ENGL 14D

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in developing salable magazine articles. The course will emphasize analyzing markets, writing query letters, focusing ideas, approaching editors, preparing articles for publication, working with editors on editing or changing articles, using information in a number of articles, and becoming familiar with a wide range of publications.

ENGWR 384 Mass Media and Society (Same as COMM 351 and JOUR 310) **3 Units**

Formerly: ENGL 19

Prerequisite: None
Advisory: ENGWR 100 with a "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course exploring aspects of communication and the impact of mass media on the individual and society. The survey includes basic communication models, books, magazines, newspapers, recordings, movies, radio, television, advertising, public relations, the Internet, theories of communication, relationships between mass media and business and government, processes and effects from a social science perspective.

ENGWR 480 Honors College Composition **3 Units**

Formerly: ENGL 1AH

Prerequisite: ENGWR 100 with a grade of "C" or better, or placement through the assessment process. Students must also be eligible for admission to the Honors Program.
AA/AS: Writing Competency
Acceptable for credit: UC (ENGWR 300 or 480, maximum one course)/CSU
54 hours Lecture
ENGWR 480 offers the honors student a challenging course that will develop skills in composition and critical thinking. Students will analyze essays exhibiting a variety of structures and styles, and write a minimum of 8,500 words divided among at least five essays. Students will write carefully reasoned, stylistically sophisticated, properly documented essays of varying lengths. Students also lead discussions, workshop rough drafts, and may collaborate on presentations or projects.

English as a Second Language
ESL ELSG ESLL ESLP ESLR ESLW

Division of Language and Literature

Albert Garcia, Dean

Rodda South 226

916-558-2325

ESL 40 ESL Through Computer Technology 2 Units

Prerequisite: ESLL 30, ESLR 30, and ESLW 30 with grades of "C" or better or placement through the Sacramento City College assessment process.
Advisory: Concurrent enrollment in ESLL 40, ESLR 40, and/or ESLW 40.
27 hours Lecture; 27 hours Laboratory
Non-degree Applicable
This course is designed to introduce intermediate-low ESL students to the basic vocabulary patterns connected with computer usage. It includes use of student e-mail, the Sacramento City College Web site, basic word processing, and the Internet. This course is offered as Credit/No Credit only. This course may be taken twice for credit.

ESL 41 ESL Through Computer Technology and Studying Online 2 Units

Prerequisite: Completion with "Credit" of ESL 40, ESL Through Computer Technology.
Advisory: Concurrent enrollment in ESLL 40, ESLR 40, and ESLW40.
27 hours Lecture; 27 hours Laboratory
Non-degree Applicable
This course is designed to introduce the language and skills needed to enroll in and successfully complete a computer-assisted class. Emphasis will be on practicing communication skills in a computer classroom. It also includes use of e-mail, bulletin boards, and chat rooms to practice communication skills. Students will also use Web sites to practice critical reading skills. This course is offered as Credit/No Credit only. This course may be taken twice for credit.

ESL 45 College and Academic English 2 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 30, ESLR 30, and ESLW 30 with grades of "C" or better.
36 hours Lecture
Non-degree Applicable
This course introduces students to the basic structures and vocabulary of academic English necessary for success in a college setting. Students will learn vocabulary, idioms, verb tenses, question structure, and sentence patterns applicable to a college setting. Language structures will be applied to the concepts of the classroom, classwork, homework, teacher and student behaviors, test taking, and others. Students will also learn the language structures necessary to access services offered at SCC: counseling, tutorial, learning resources, and the ESL Center. This course is offered as Credit/No Credit only. This course may be taken twice for credit.

ESL 46 U.S. Culture and Academic English 2 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 30, ESLR 30, and ESLW 30 with grades of "C" or better.
36 hours Lecture
Non-degree Applicable
This course introduces students to the basic structures and vocabulary of academic English which serve as a foundation to the understanding of American culture and institutions. Students will learn vocabulary, idioms, verb tenses, and sentence patterns which apply to basic American history and geography; the basic structure of government and its institutions; involvement in the community; common American values; and defining modern America. This course is offered as Credit/No Credit only. This course may be taken twice for credit.

CELEBRATING 90 YEARS

ESL 92 **ESL Center: Intermediate Independent Lab** **.5-1 Units**

Formerly: ESL 290

Prerequisite: Eligibility for ESL level 40.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced and/or small group instruction to non-native English speakers at the intermediate levels. This course can help students improve their writing skills at the sentence, paragraph, and essay level to succeed in ESL composition and other courses that require writing. This course can also help students who wish to do independent work in other skill areas. A variety of self-study materials are available on such topics as grammar, composition, reading, vocabulary, listening, pronunciation, study skills, and workplace skills to develop and reinforce their use of the English language. Students may register until the end of the twelfth week of the semester if space allows. This course is Credit/No Credit and is not a substitute for other ESL courses. Students can earn 0.5 unit of credit for each 27 hours of work. Students may earn up to one unit per semester. This course may be taken a maximum of four times for credit.

ESL 93 **ESL Center: Advanced Independent Lab** **.5-1 Unit**

Prerequisite: Eligibility for ESL level 320.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced and/or small group instruction to non-native English speakers at the advanced levels. This course can help students improve their writing skills at the sentence, paragraph, and essay level to succeed in ESL composition and other courses that require writing. This course can also help students who wish to do independent work in other skill areas. A variety of self-study materials are available on such topics as grammar, composition, reading, vocabulary, listening, pronunciation, study skills, and workplace skills to develop and reinforce their use of the English language. Students may register until the end of the twelfth week of the semester if space allows. This course is Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 unit of credit for each 27 hours of work. Students may earn up to one unit per semester. This course may be taken a maximum of four times for credit.

ESL 114 **Career Communication Skills: Intermediate** **4 Units**

Formerly: ESL 64

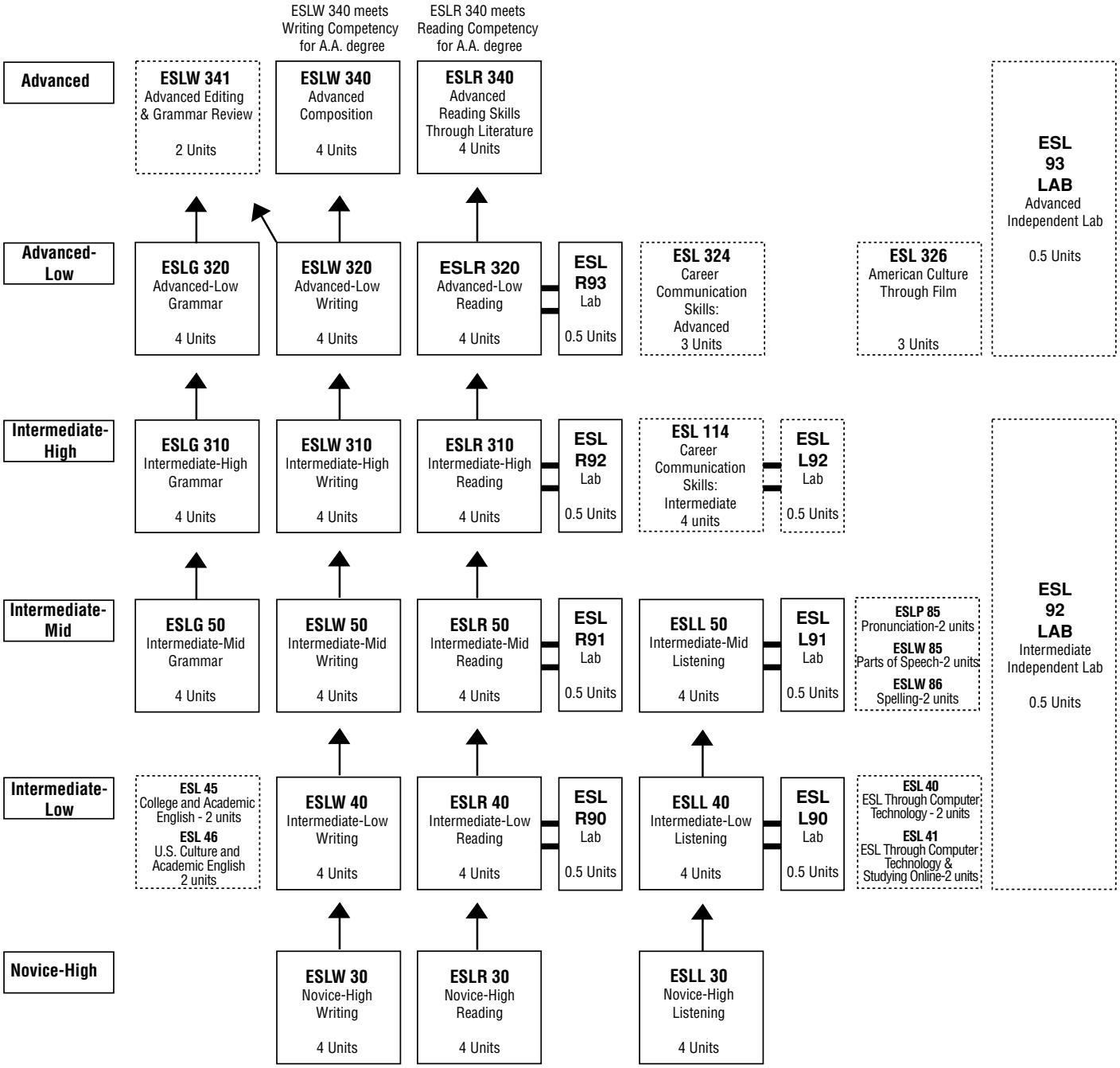
Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 50 and one of either ESLG 50 or ESLW 50 with a grade of "C" or better.
Advisory: Students are advised to take ESL 92 concurrently with ESL 114.
72 hours Lecture
This course gives students the opportunity to develop oral communication skills needed for success in job-preparatory coursework, job searches, and career development. Students discuss cultural practices and learn functional language patterns applicable to various occupational and classroom situations. In addition, intensive work in pronunciation helps students communicate more effectively with instructors, classmates, supervisors, and co-workers.

ESL 324 **Career Communication Skills: Advanced** **3 Units**

Formerly: ESL 7

Prerequisite: Eligibility is determined by the Sacramento City College assessment process, completion of ESL 114 with a grade of "C" or better, or completion of ESLG 310, ESLW 310, and ESLR 310 with grades of "C" or better.
Advisory: ESL 93.
Acceptable for credit: CSU
54 hours Lecture
ESL 324 offers students advanced work in improving oral communication skills needed for success in college coursework and career development. Students examine cultural contrasts and misconceptions while participating in activities designed to promote peer and self-evaluation in communicative situations. In addition, intensive work in pronunciation and practice with functional language patterns help students gain a mastery of spoken English that will lead to more effective communication with instructors, classmates, supervisors, and colleagues.

English as a Second Language



1. Prerequisites are assessment at SCC or successful completion of the previous course only.
2. Prerequisites vary for Level 30, Labs, and Electives. *Please check prerequisites and corequisites carefully.*
3. ESLW 340 and ESLR 340 meet the Writing and Reading Competency requirements for the A.A. degree.
4. Courses numbered 300 and above are transferable. Check with a counselor about transfer requirements.
5. Elective courses are indicated by dotted lines and are open to students at the level indicated and all higher levels.

ESL 326 American Culture Through Film 3 Units

Formerly: ESL 8

Prerequisite: None
Advisory: Completion of ESLG 310, ESLW 310, and ESLR 310 with grades of "C" or better, or placement at the ESLG 320, ESLW 320, ESLR 320 or ESLW 340 level in the assessment process.
General Education: AA/AS Areas C, F
Acceptable for credit: CSU
54 hours Lecture
ESL 326 gives non-native speakers of English the opportunity to improve their listening, speaking, reading, and writing skills as they explore the cultural diversity of the United States through the medium of film. Students will watch, discuss, and write about movies chosen for their presentation of selected cultural topics. Lectures, readings, discussions, and written responses will focus on analysis, comparison, and contrast of various cultural groups, including the students' own. Most films will be viewed in class, but students will also select a small number of films to watch and review independently.

ESL - Grammar (ESLG)

ESLG 50 Intermediate-Mid Grammar 4 Units

Formerly: ESL 280G

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 40 with a grade of "C" or better.
Advisory: ESL 92, ESLL 50, ESLW 50, and ESLR 50, or other ESL courses at the appropriate level.
72 hours Lecture
Non-degree Applicable
This course concentrates on the fundamental grammatical structures of English. Students will develop skill and accuracy in using these grammatical structures in appropriate contexts. There will be much oral and written practice with an emphasis on sentence structure and verb tenses.

ESLG 310 Intermediate-High Grammar 4 Units

Formerly: ESL 1G

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLG 50 with a grade of "C" or better.
Advisory: ESL 92, ESLW 310, and ESLR 310, or other ESL courses at the appropriate level.
Acceptable for credit: CSU
72 hours Lecture
This course focuses on further practice of the forms, meanings, and usage of grammatical structures of English with an emphasis on verb usage.

ESLG 320 Advanced-Low Grammar 4 Units

Formerly: ESL 2G

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLG 310 with a grade of "C" or better.
Advisory: ESL 93, ESLW 320, and ESLR 320, or other ESL courses at the appropriate level.
Acceptable for credit: UC (all UC transferable ESL courses, maximum 8 units)/CSU
72 hours Lecture
This course focuses on practice in the forms and meanings of major structures used in writing with an emphasis on clause structure. Oral practice reinforces the structures studied. Students practice writing extensively both in and out of class. Assignments emphasize sentence structure in the context of longer written work.

ESL - Listening (ESLL)

ESLL 30 Novice-High Listening and Speaking 4 Units

Formerly: ESL 260L

Prerequisite: None
Advisory: ESLR 30 and ESLW 30 or other ESL courses at the appropriate level; advise adult school before taking ESLL 30.
72 hours Lecture
Non-degree Applicable
This is a course in listening comprehension and practical conversation for non-native English speakers who plan to take college courses. Students will learn to recognize and use the sounds of American English, stress, rhythm, and intonation patterns. This course may be taken twice for credit.

ESLL 40 Intermediate-Low Listening and Speaking 4 Units

Formerly: ESL 270L

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 30 with a grade of "C" or better.
Corequisite: ESLL 90.
Advisory: ESLW 40 and ESLR 40 or other ESL courses at the appropriate level.
72 hours Lecture
Non-degree Applicable
This is a course to help students develop the listening and speaking skills needed to succeed in college courses. Students will focus on developing phrases and sentences to communicate their ideas in familiar situations. The course includes group and individual listening and speaking activities, an overview of American English sounds, and practice in stress, rhythm, and intonation. This course may be taken twice for credit.

ESLL 50 Intermediate-Mid Listening and Speaking 4 Units

Formerly: ESL 280L

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 40 with a grade of "C" or better.
Corequisite: ESLL 91.
Advisory: ESLG 50, ESLR 50, and ESLW 50, or other ESL courses at the appropriate level.
72 hours Lecture
Non-degree Applicable
This is a course to help students understand and be understood in both familiar and unfamiliar situations. Students will be introduced to academic listening and speaking activities and will continue to work on pronunciation skills.

ESLL 90 ESL Center: Intermediate-Low Listening Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 40.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as listening, pronunciation, and vocabulary. Coursework is designed to develop and reinforce English language skills at the intermediate-low level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLL 91 ESL Center: Intermediate-Mid Listening Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 50.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as listening, pronunciation, and vocabulary. Coursework is designed to develop and reinforce English language skills at the intermediate-mid level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLL 92 ESL Center: Intermediate-High Listening Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 310.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as listening, pronunciation, vocabulary and workplace skills. Coursework is designed to develop and reinforce English language skills at the intermediate-high level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESL - Pronunciation (ESLP)

ESLP 85 Pronunciation 2 Units

Formerly: ESL 288P

Prerequisite: Eligibility is determined by the assessment process or completion of ESLL 40 with a grade of "C" or better.
36 hours Lecture
Non-degree Applicable
This elective course is designed for students who need to improve their pronunciation. It offers intensive practice in the pronunciation and recognition of American English sounds. Students will be introduced to intonation patterns of English, syllables, and stress. This course may be taken twice for credit.

ESL - Reading (ESLR)

ESLR 30 Novice-High Reading 4 Units

Formerly: ESL 260R

Prerequisite: None
Advisory: ESLL 30 and ESLW 30 or other ESL courses at the appropriate level; advise adult school before taking ESLR 30.
72 hours Lecture
Non-degree Applicable
This course focuses on reading words, phrases, and sentences in short texts. Students will learn core vocabulary, spelling rules, phonetics, and grammar necessary to understand short readings. This course may be taken twice for credit.

ESLR 40 Intermediate-Low Reading 4 Units

Formerly: ESL 270R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 30 with a grade of "C" or better.
Corequisite: ESLR 90.
Advisory: ESLL 40 and ESLW 40 or other ESL courses at the appropriate level.
72 hours Lecture
Non-degree Applicable
This course focuses on developing reading skills with an emphasis on building vocabulary, literal comprehension, and fluency. Students will discuss and write about readings.

ESLR 50 Intermediate-Mid Reading 4 Units

Formerly: ESL 280R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 40 with a grade of "C" or better.
Corequisite: ESLR 91.
Advisory: ESLL 50, ESLW 50, and ESLG 50, or other ESL courses at the appropriate level.
72 hours Lecture
Non-degree Applicable
The course focuses on the introduction of academic reading skills, with an emphasis on vocabulary development, literal comprehension, and dictionary skills. Students will practice critical thinking skills to understand, analyze, discuss, and write responses to ideas expressed in readings.

ESLR 90 ESL Center: Intermediate-Low .5-1 Unit Reading Skills in ESL

Prerequisite: Eligibility for ESL level 40.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the intermediate-low level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 91 ESL Center: Intermediate-Mid .5-1 Unit Reading Skills in ESL

Prerequisite: Eligibility for ESL level 50.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the intermediate-mid level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 92 ESL Center: Intermediate-High Reading Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 310.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the intermediate-high level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 93 ESL Center: Advanced-Low Reading Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 320.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
Non-degree Applicable
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the advanced-low level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded Credit/No Credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 310 Intermediate-High Reading 4 Units

Formerly: ESL 1R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 50 with a grade of "C" or better.
Corequisite: ESLR 92.
Advisory: ESLG 310 and ESLW 310, or other ESL courses at the appropriate level.
Acceptable for credit: CSU
72 hours Lecture
This course focuses on developing academic reading skills with an emphasis on speed, vocabulary expansion, and comprehension of ideas, and introduces students to library use. Students will use critical thinking skills to understand, paraphrase, summarize, and respond to ideas expressed in readings, either orally or in writing.

ESLR 320 Advanced-Low Reading 4 Units

Formerly: ESL 2R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 310 with a grade of "C" or better.
Corequisite: ESLR 93.
Advisory: ESLG 320 and ESLW 320, or other ESL courses at the appropriate level.
Acceptable for credit: CSU
72 hours Lecture
This course focuses on refining academic reading skills with an emphasis on speed, vocabulary development, and analytical comprehension. Students will practice research and synthesizing skills and do extensive writing based on critical analysis of readings.

ESLR 340 Advanced Reading Skills Through Literature 4 Units

Formerly: ESL 5R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 320 with a grade of "C" or better.
Advisory: ESL 93, ESLW 340, or ESLW 210, or other ESL courses at the appropriate level
General Education: AA/AS Areas C, F, and reading competency
Acceptable for credit: UC (all UC transferable ESL courses, maximum 8 units)/CSU
72 hours Lecture
This course is designed to improve vocabulary and reading skills for the advanced ESL learner. Students will gain an appreciation of various forms of literature from a variety of reading selections including essays, poetry, drama, short stories and novels. This course emphasizes critical thinking and reading skills needed for academic performance: (1) vocabulary development, (2) analysis and comprehension skills, (3) flexibility of reading rate. The course also emphasizes the comparison and contrast of universal and metaphorical themes, as applied in various cultures. It can be used to fulfill the Reading Competency requirement for the A.A. and A. S. degrees.

ESL - Writing (ESLW)

ESLW 30 Novice-High Writing 4 Units

Formerly: ESL 260W

Prerequisite: None
Advisory: ESLR 30 and ESLL 30 or other ESL courses at the appropriate level; advise adult school before taking ESLW 30.
72 hours Lecture
In this course, students will learn simple sentences and paragraph structures. This course is an introduction to writing in English for non-native speakers who plan to take college courses. This course may be taken twice for credit.

ESLW 40 Intermediate-Low Writing 4 Units

Formerly: ESL 270W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 30 with a grade of "C" or better.
Advisory: ESL 92, ESLL 40, and ESLR 40, or other ESL courses at the appropriate level.
72 hours Lecture
In this course, students will learn to write focused paragraphs with a clear beginning, middle, and end. They will learn to use critical thinking skills and correct grammar in their writing.

ESLW 50 Intermediate-Mid Writing 4 Units

Formerly: ESL 280W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 40 with a grade of "C" or better.
Advisory: ESL 92, ESLL 50, ESLR 50, and ESLG 50, or other ESL courses at the appropriate level.
72 hours Lecture
In this course, students will learn techniques essential to essay writing. They will continue to develop sentence structure in longer pieces of writing.

ESLW 85 Parts of Speech 2 Units

Formerly: ESL 288F

Prerequisite: Eligibility is determined by the assessment process or completion of ESLW 40 with a grade of "C" or better.
36 hours Lecture
This elective course covers the most important parts of speech in English. Students will learn to identify and use nouns, pronouns, adjectives, adverbs, verbs, prepositions, and conjunctions in basic sentences. This course may be taken twice for credit.

ESLW 86 Spelling 2 Units

Formerly: ESL 288S

Prerequisite: Eligibility is determined by the assessment process or completion of ESLR 40 and ESLW 40 with a grade of "C" or better.
36 hours Lecture
This elective course is designed for students who need to improve their spelling. It includes an introduction to the basic spelling rules and patterns of English. Students will also learn homophones, suffixes, and plurals. Students will develop competence in the ability to spell. This course may be taken twice for credit.

ESLW 310 Intermediate-High Writing 4 Units

Formerly: ESL 1W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 50 with a grade of "C" or better.
Acceptable for credit: UC (all UC transferable ESL courses, maximum 8 units)/CSU
Advisory: ESL 92, ESLG 310 and ESLR 310, or other ESL courses at the appropriate level; BUSTEC 300.
72 hours Lecture
In this course, students will continue to develop their ability to respond to a variety of essay assignments. They will practice critical thinking skills through class discussion and written response to readings. They will refine their ability to control a range of sentence structures.

ESLW 320 Advanced-Low Writing 4 Units

Formerly: ESL 2W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 310 with a grade of "C" or better.
Advisory: ESL 93, ESLG 320 and ESLR 320, or other ESL courses at the appropriate level; BUSTEC 300.
Acceptable for credit: UC (all UC transferable ESL courses, maximum 8 units)/CSU
72 hours Lecture
In this course, students will use critical thinking skills and the writing process to produce a variety of focused, developed, and organized essays. The course emphasizes sentence variety and the mechanics of English in the context of the essay. Essays will incorporate outside sources as well as personal experience.

ESLW 340 Advanced Composition 4 Units

Formerly: ESL 5W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLG 320 and ESLW 320 with grades of "C" or better, or completion of ESLG 320 and ESLW 210 with grades of "C" or better.
Advisory: BUSTEC 300; ESL 93, ESLW 341, and ESLR 340, or other ESL courses at the appropriate level.
General Education: AA/AS Area D1 and writing competency
Acceptable for credit: UC (all UC transferable ESL courses, maximum 8 units)/CSU
72 hours Lecture
In this college composition course, students will apply critical thinking skills to writing. Writing assignments include expository and argumentative prose based on analysis of a variety of readings. Students will refine summarizing and paraphrasing skills. They will write a research paper with citations and bibliography. This course satisfies the Written Expression Competency requirement for graduation and the English Writing 300 requirement of some California colleges and universities.

ESLW 341 Advanced Editing and Grammar Review for ESL Writers 2 Units

Formerly: ESL 5E

Prerequisite: ESLW 320, or ESLG 320, or ENGWR 100, or BUS 310 with a grade of "C" or better or placement through the Sacramento City College assessment process.
Acceptable for credit: CSU
36 hours Lecture
This course is designed to increase awareness of common higher level ESL grammar errors typical to the composition process. Reading, writing, and editing exercises focus on improved analysis and the development of self-help strategies. This course is Credit/No Credit only. This course may be taken twice for credit.

Ethnic Studies

Associate in Arts Degree

African-American Emphasis

Mexican-American Emphasis

Asian-American Emphasis

Native-American Studies

Department of Social Science

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

The need for a more extensive inclusion of minority groups in the American educational system is widely recognized. Open to all Sacramento City College students, the Ethnic Studies program serves as a response to the needs, demands, and experiences of Sacramento's minority communities. It can be of vital importance to the student because the program makes available a perspective on ethnic groups not ordinarily fully provided in educational institutions.

Program Information

At Sacramento City College a program is offered with emphases on African American, Mexican American, Asian American, and Native Americans. In addition to the required introductory course in Ethnic Studies, general courses on American ethnic groups are offered in Sociology, Psychology, Anthropology, and History.

Career Opportunities

The Ethnic Studies program can fulfill a liberal arts major for the transfer or non-transfer student who wishes to be informed in the field. The program will also give a background to students hoping to teach.

Ethnic Studies, African-American Emphasis

Required Program	**Units**
SOCSC 300, Introduction to Ethnic Studies	3
A minimum of 15 units from the following:	15
SOCSC 320, Socio-Cultural, Economic and Political Experience of the African-American (3)	
ENGLT 331, African-American Literature (1730-1930) (3)	
ENGLT 332, African-American Literature (1930-Present) (3)	
HIST 320, History of the United States: African-American Emphasis (3)	
HIST 321, History of the United States: African-American Emphasis (3)	
HIST 344, Survey of California History: A Multicultural Perspective, (3) or HIST 360, History of African Civilizations (3)	
Total Units Required	**18**

Suggested Electives

ARTH 328, ARTH 330, ANTH 310, ANTH 320, ANTH 341, PSYC 367, SOC 300, SOC 321

Associate in Arts Degree (A.A.)

The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

CELEBRATING 90 YEARS

Ethnic Studies, Asian-American Emphasis

Required Program	Units
SOCSC 300, Introduction to Ethnic Studies	3
SOCSC 325, Asian Experience in America	3
HIST 344, Survey of California History: A Multicultural Perspective	3
HIST 364, Asian Civilization	3
HIST 365, Asian Civilization	3
ENGLT 334, Asian-American Literature	3
Total Units Required	**18**

Suggested Electives
ANTH 310, ANTH 320, ANTH 341, ARTH 332, CANT 401,CANT 402, CANT 411, CANT 412, JAPAN 401, JAPAN 402, JAPAN 411, JAPAN 412, MAND 401, MAND 402, MAND 411, MAND 412, PSYC 367, SOC 300,SOC 321, TGLG 401, TGLG 402, VIET 401, VIET 402

Associate in Arts Degree (A.A.)
The Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Ethnic Studies, Mexican-American Emphasis

Required Program	Units
SOCSC 300, Introduction to Ethnic Studies	3
A minimum of 15 units from the following:	15
SOCSC 330, Mexican-Americans in the United States (3)	
SOCSC 332, The Sociology and Psychology of the Mexican - American (3)	
HIST 370, History of the Americas through the 19th Century Wars of Independence (3)	
or HIST 371, History of the Americas from the 19th Century Wars of Independence to the Present (3)	
or HIST 373, History of Mexico (3)	
HIST 344, Survey of California History: A Multicultural Perspective (3)	
ENGLT 335, Latino, Mexican-American, and Chicano Literature (3)	
Total Units Required	**18**

Suggested Electives
ARTH 324, ANTH 310, ANTH 320, ANTH 341, PSYC 350, PSYC 367, SOC 300, SOC 321, SPAN 401, SPAN 402, SPAN 411, SPAN 412

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Ethnic Studies, Native-American Studies

Required Program	Units
SOCSC 300, Introduction to Ethnic Studies	3
A minimum of 15 units from the following:	**15**
SOCSC 335, Introduction to Native-American Studies (3)	
SOCSC 336, Native-American Culture and the Impact of Federal Policy (3)	
HIST 310, History of the United States (3)	
HIST 344, Survey of California History: A Multicultural Perspective (3)	
ANTH 332, Native Peoples of California (3)	
ANTH 334, Native Peoples of North America (3)	
Total Units Required	**18**

Suggested Electives
ANTH 341, ARTH 324, PSYC 367, SOC 300, SOC 321

Associate in Arts Degree (A.A.)
The Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Experimental Offering In (Subject)

299/499 Experimental Offering in (Subject) .5-4
Not transferable

Acceptable for credit: CSU (elective units) UC (Credit is contingent upon evaluation of course outline by each UC campus after transfer); Only those marked with an asterisk (499) are UC transferable*
An Experimental Offering is a course that is offered on a trial basis. Experimental Offering courses can only be offered within one year, and thereafter, must be submitted for approval as regular courses or discontinued. Refer to the Schedule of Classes for more specific offerings.

ACCT 299, 499
ADAPT 499*
ADMJ 499
AERO 299, 499
AH 299, 499
ANTH 499*
ART 499*
ARTH 499*
ASTR 499*
BIOL 299, 499*
BUS 299, 499
BUSTEC 299, 499
CANT 499*
CHEM 299, 499*
COMM 499*
COMDE 499
CISA 499
CISC 299, 499
CISN 299, 499
CISP 499
CISW 299, 499
COSM 299
DANCE 499*
DAST 299
DHYG 299
ECE 299, 499
ECON 299, 499*
EDT 499
EVT 299
ET 299, 499
ENGR 499*
ENGCW 499*
ENGED 499
ENGLB 299
ENGLT 499*
ENGRD 299, 499
ENGWR 299, 499*
ESL 299, 499
ESLG 499
ESLR 499
ESLW 299, 499
FCS 499
FARSI 499
FASHN 299, 499
FITNS 499*
FREN 299, 499*
GEOG 499*
GEOL 499*
GERM 299, 499*
GERON 499
GCOM 299, 499
HEED 499
HIST 499*
HSER 499
HCD 299, 499
HUM 499*
IDES 499
JAPAN 299, 499*
JOUR 499
LIBR 499
LIBT 499
MGMT 299,499
MAND 299, 499*
MKT 499
MATH 299, 499*
MET 499
MTRCL 299
MUFHL 499
MUIVI 499
MUP 499
MUSM 499*
NURSE 299, 499
OTA 299
PACT 499*
PHIL 499*
PHOTO 299, 499
PET 499*
PTA 299
PHYS 499*
POLS 499*
PSYC 499*
RAILR 299
RE 499
RECR 499
RVT 299
RUSS 499*
SILA 499
SOCSC 499*
SOC 499*
SPAN 299, 499*
SPORT 499*
STAT 499*
SGVT 499
SURVY 499
TGLG 499
TMACT 499*
TECH 299, 499
TA 499*
VIET 499
VN 299

Family and Consumer Science F C S

Associate in Arts Degree

Please find degree and certificate program requirements and detailed course listings under their respective programs:

Early Childhood Education, Degrees and Career Certificates

Fashion Degrees and Career Certificates

Gerontology, Degree and Career Certificate

Instructional Assisting, Degrees and Career Certificates

Interior Design Sewing, Degree and Career Certificate (see Fashion and Interior Design)

Liberal Studies for Elementary Teachers, Degree

Department of Family and Consumer Science

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Family and Consumer Science

Associate in Arts Degree

The Family and Consumer Science A.A. Degree curricula is designed to provide an occupational program of study for students interested in pursuing careers related to Child Development, Early Childhood Education, Family Studies, Fashion, Food Preparation, Instructional Assisting, Interior Design, Gerontology, Life Management, or Nutrition. Courses within the curriculum provide course work to meet state licensing requirements to work with individuals across the age span and provide part of the undergraduate requirements necessary for students wishing to transfer to a four-year institution. Selected courses provide students with lifelong learning skills. Students with A.A. degrees in Family and Consumer Science will have studied the relationship between the physical, social, emotional, and intellectual environment in and of the home and family and the development of individuals, including instruction in the natural and social sciences and humanities in the development of attitudes, knowledge, and ability pertaining to programs in fashion, interior design, life management, child development, family studies, and gerontology, and nutrition, foods, and culinary arts.

Career Opportunities: Opportunities for students with an A.A. Degree in Family and Consumer Sciences would include: Child Development/Resource and Referral Specialist, Early Intervention Assistant, Para-educator, Family Support Service Worker, Community Activity Planner, Community Services Worker, Recreation Specialist, Senior Supportive Services, Human Services Worker, Social Work Assistant, Family Services Worker, Life Skills Counselor, Physical Therapy Aide, Occupational Therapy Aide, Respiratory Therapy Aide, Community Support Worker, Mental Health Aide, Registry Coordinator, and Intergenerational Care Provider.

By careful selection of required and elective courses, students can develop a broad major or prepare themselves for advanced study leading to such careers as: Dietitian, Foods Consultant, Market Consultant, Clothing Designer, Family and Consumer Science Educator, Public Utility Field Representative, Interior Designer, Extension Service Advisor, Educator in Child Development and Family Relations, Consultant in Consumer Economics, Researcher in Textiles, Foods, Child Development, and Gerontology.

Transfer Students: Students who plan to complete the Bachelor's degree in Family and Consumer Science or related fields at four-year institutions should consult the Requirements of Transfer Institutions section of this catalog and the related major sections of the catalog for the institution to which they wish to transfer. Consultation with the Family and Consumer Science faculty and with counselors is advised.

Students preparing for teaching credentials in Family and Consumer Science are advised to see a counselor for planning assistance and should read the Teacher Education section of this catalog (see Pre-Professional Programs and Liberal Arts Degree for Elementary Teaching).

CELEBRATING 90 YEARS

Required Program	Units
FCS 340, Nutrition	3
FCS 344, Principles of Food Preparation	3
FASHN 320, Textiles	3
ECE 323, The Effective Parent-Teacher	3
FASHN 310, Fashion Analysis/Clothing Selection	3
FASHN 351, Principles of Apparel Construction/Intermediate Sewing	3
FCS 320, Marriage and the Family (3) or SOC 310, Marriage and the Family (3)	3
FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3) or ECE 314, The Child, the Family and the Community (3)	3
FCS 330, Sociology of Aging (3) or GERON 300, Sociology of Aging (3) or SOC 335, Sociology of Aging (3)	3
IDES 300, Fundamentals of Interior Design	3
FCS 332, Psychology of Aging: Adult Development and Aging (3) or GERON 302, Psychology of Aging: Adult Development and Aging (3) or PSYC 374, Psychology of Aging: Adult Development and Aging (3)	3
Total Units Required	**33**

Suggested Electives
ECE 415 (Same as FCS 346), FCS 312 (Same as ECE 312), 324, 342 (Same as PSYC 370); SOC 380, 382.

Associate in Arts (A.A.) Degree
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Family and Consumer Science (FCS)

FCS 294 Topics in Family and Consumer Science .5-4 Units

Formerly: FCS 52

Prerequisite: None
36 hours Lecture; 54 hours Laboratory
Designed to give the students an opportunity to study topics in Family and Consumer Science that are consumer or job oriented and not included in current course offerings. May be repeated for credit providing there is no duplication of topics.

FCS 304 Concepts in Personal Finance (Same as BUS 320) 3 Units

Formerly: FCS 36

Prerequisite: None
Advisory: Eligibility for ENGWR 100, or ESLW 310, or BUS 310.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to assist individuals to analyze their financial affairs. Elements and conceptual basis of financial planning analysis and decision making in areas of budgeting, taxes, borrowing, money management, insurance, investments, and retirement will be examined with an emphasis on principles to develop students' economic decision making. This course meets the Living Skills graduation requirement.

FCS 306 Family Law Issues (Same as ADMJ 326) 3 Units

Formerly: FCS 31

Prerequisite: None
Advisory: Eligibility for ENGWR 100.
Acceptable for credit: CSU
54 hours Lecture
This is an Introductory course that provides basic knowledge of both civil and criminal laws dealing with family and domestic issues. The course explores paternity suits, pre-nuptial agreements, divorce, child custody, child support, alimony, spousal abuse, restraining orders, child visitation violations, parental kidnapping, and numerous other domestic problems faced by the justice system and families.

FCS 312 Child Development 3 Units
(Same as ECE 312)
Formerly: FCS 34

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed for students to study the growth and development of children from the prenatal stage through adolescence. For each stage of development, the physical, cognitive, linguistic, social-moral, and emotional aspects of development with attention to both typical as well as atypical development in each area is discussed. Included are the influences of culture, family, and the environment. The material on this course is designed as a foundation for teaching, nursing, early childhood education, and parenting. (Credit offered for ECE 312 or FCS 312.)

FCS 314 The Child, the Family and the Community 3 Units
(Same as ECE 314 and SOC 312)
Formerly: FCS 35

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FCS 312; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Areas B2, E2.
Acceptable for credit: UC/CSU
54 hours Lecture
The course is designed for students to examine the child in the family and community. Influences on growth and development including media, social class, gender, sexual orientation, racial/ethnic groups, and their relationship to family behavior will be studied. Students will identify and evaluate personal family dynamics and consequences. Additionally, students are given the opportunity to research and review the diverse community activities and resources available to support the child and the family. (Credit for ECE 314 or FCS 314 or SOC 312.)

FCS 320 Marriage and the Family 3 Units
(Same as SOC 310)
Formerly: FCS 32

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Areas B2, E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed for the student to examine the social, psychological, historical, and economic factors relating to changing family, marriage, remarriage, and significant relationship patterns. Exploration of changing gender roles, the meaning of love and sexuality, dating, communication skills, and parenting are included. (Credit may be awarded for either SOC 310 or FCS 320.)

FCS 324 Human Development: A Life Span 3 Units
(Same as PSYC 370)
Formerly: FCS 38

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110, or ESLW 340 and ESLR 340; and ESL 114 with grades of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
Students will study the physical, cognitive, social, and emotional development of humans from conception through the life span. Emphasis will be placed on the practical application of developmental principles. This is a foundation course for careers in the educational, social, psychological, and medical fields. (Students may receive credit for FCS 324 or PSYC 370 but not both.)

FCS 326 Sex and Gender in the U.S. 3 Units
(Same as SOC 341)
Formerly: FCS 37

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of the changing roles of women and men in America. Theories of women's and men's "natures," gender role socialization, gender related inequalities, health and body issues, and current examination of the women's and men's movements will be explored. (Credit for FCS 326 or SOC 341.)

FCS 330 Sociology of Aging 3 Units
(Same as GERON 300 and SOC 335)
Formerly: FCS 39

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100 or ESLR 340 and ESLW 340 and ESL 114; and FCS 324; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Areas B2, E2.
Acceptable for credit: UC (FCS 330 or 332; maximum one course; FCS 330 or PSYC 374, maximum one course)/CSU
54 hours Lecture
In this course students will examine the aging process with emphasis on social factors affecting and affected by an aging population. It includes an analysis of demographics, history of aging in America, social conditions, resources and support systems, employment, retirement, social class, and cultural differences. Students will be encouraged to reflect on their status in the sociology of aging process. (Credit awarded for FCS 330 or GERON 300 or SOC 335.)

FCS 332 Psychology of Aging: Adult Development and Aging (Same as GERON 302 or PSYC 374) 3 Units

Formerly: FCS 41

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100, or ESLR 340 and ESLW 340 and ESL 114; and FCS 324; and LIBR 318 with grades of "C" or better.
General education: AA/AS Area E2.
Acceptable for credit: UC (FCS 330 or 332; maximum one course)/ CSU
54 hours Lecture
Students will explore the description and explanation of the evolution of adult behavior over the life span. It will also include the study of the nature and changes of capabilities, skills, feelings, emotions, and social behavior with age. (Credit for FCS 332 or PSYC 374 or GERON 302.)

FCS 340 Nutrition 3 Units

Formerly: FCS 10

Prerequisite: None
Advisory: ENGRD 110, and ENGWR 100, or ESLR 340, and ESLW 340 and ESL 114 and MATH 34 with grades of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: UC (FCS 340 or 480, maximum one course)/ CSU
54 hours Lecture
Students will study the basic principles of nutrition, sources and functions of the nutrients in all stages of the life cycle, nutrition as a world problem, and consumer problems related to food. Course topics such as weight loss, sports nutrition, food safety, the diet-disease relationship, global nutrition and analysis of special nutritional requirements and needs during the life cycle, are emphasized. An evaluation of personal dietary habits using current dietary guidelines and nutritional assessment methods will also be completed to help students access their own nutritional health.

FCS 342 Cultural Foods of the World 3 Units

Formerly: FCS 12

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310 or ESLW 340 and ESLR 340, and MATH 100.
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
54 hours Lecture
Students will explore the typical food customs and meal patterns of various cultures throughout the world. Students will be introduced to the social, religious, economic, and aesthetic significance of these cultures and examine how geographical, agricultural, and socioeconomic factors influence their nutritional status. Students will also explore the preparation and evaluation of the food products. There will be one mandatory field trip to a specialty market/ restaurant.

FCS 344 Principles of Food Preparation 3 Units

Formerly: FCS 13

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and MATH 34.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
Students will be introduced to scientific principles, which guide the selection, preparation, storage, and presentation of food. Required fieldtrips will demonstrate how class work is applied in the work place. The class is organized to introduce cooking essentials of foods through reading, and lecture; as well as providing lab experiences, in class and at home, to illustrate the principles discussed. Evaluation of the food products is a feature of this class.

FCS 346 Children's Health, Safety and Nutrition (Same as ECE 415) 3 Units

Formerly: FCS 14

Prerequisite: None
Advisory: ECE 410 and ENGRD 110 and ENGWR 100 or ESLR 340 and ESLW 340, ESL 114, and FCS 312 and FCS 314 and FCS 340; and MATH 34 with grades of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
Students will study the basic health, safety, and nutritional needs of children from the prenatal period through school-age. Topics include identification of the nutrients in foods as they affect a child's physical, and mental development. Course emphasis is placed on maintaining the optimal health, safety, and nutritional status of children at home, and in group care. Projects related to health, safety, and nutrition education are included as part of the curriculum. One field trip is required. (Students may receive credit for FCS 346 or ECE 415, but not both.)

FCS 480 Nutrition Honors 3 Units

Formerly: FCS 10H

Prerequisite: Admission to the Honors program.
General Education: AA/AS Area E2
Acceptable for credit: UC/(FCS 340 or 480, maximum one course)/ CSU
54 hours Lecture
This is an enriched study of nutrition for honors students. The course studies basic nutrients and their physiological functions. Current issues such as protein vegetarian plans, world hunger, complex carbohydrates, vitamin/mineral supplementation are studied. Evaluation and improvement of personal dietary is done using computer analysis. Scientific research methods are studied in journal articles for weekly seminars. Debates encourage critical thinking from opposing points of view. Lifestyles during pregnancy and infancy through aging are examined.

Fashion and Interior Design
FASHN IDES

Associate in Arts Degree

Career Certificate

Certificate of Completion

Department of Family and Consumer Science

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Fashion Design and Production, Degree and Career Certificate

Custom Apparel Construction and Alterations, Degree and Career Certificate

Interior Design Sewing, Degree and Career Certificate

Production Sewing, Certificate of Completion, Level 3

Fashion Design and Production

Associate in Arts Degree
Career Certificate

The Fashion Curriculum is designed to provide a vocational program of study for students interested in pursuing a career in Fashion: Merchandising, Design, Production, and Textiles. Selected courses provide students with lifelong learning knowledge and consumer skills. The Fashion Design and Production A.A. Degree provides students with an option for a career or the requisite foundation for transfer to a four-year college or university.

California's apparel industry is a major success story. It is an important, but often overlooked, contributor to the state's economy. San Francisco and Los Angeles are the largest centers for apparel manufacturing outside of New York City. One of the largest apparel wholesale markets in the world is the California Mart in Los Angeles.

California apparel jobs have grown steadily with the success of the industry. Jobs increased in the 1990's, a time when the rest of the U.S. lost apparel jobs, and have even continued to grow. This is because the high-end tasks are performed here, such as computer aided design and pattern making, size grading, and color setting, as well as the planning and management of off shore production.

Emerging careers in this high growth industry will require "state of the art" high tech training.

Career Opportunities: Entry-level jobs in this field can be found in apparel production companies, apparel manufacturing plants, designer workrooms, custom sewing workrooms, and theatrical production. This program can also prepare a student for self-employment or entrepreneurship. Examples of careers in Fashion Design and Production include: Assistant Designer, CAD Technician, Computer Digitizer, Costing Engineer, Customer Services, Designer, Design Room Assistant, Fashion Illustrator, Fashion Stylist, First Pattern Maker, Grader, Manufacturer's Sales Representative, Marker Maker, Operation Manager, Piece Goods Buyer, Product Specialist, Production Manager, Production Pattern Maker, Quality Controller, Quick Response Manager, Sales Manager, Sample Maker, Sewing Room Supervisor, Showroom Assistant, Tailor, Textile Colorist, Textile Croquis Painter, Textile Designer, Textile Researcher, Textile Tester, and Trim Buyer.

Required Program	Units
FASHN 140, Fashion Illustration	3
FASHN 150, Fundamentals of Sewing/ Beginning Sewing	3
FASHN 153, Serger Fundamentals	3
FASHN 351, Principles of Apparel Construction/Intermediate Sewing	3
FASHN 162, Industrial Sewing - Sewing Machine Operations I	2
FASHN 372, Pattern Making and Design	3
FASHN 165, Apparel Production - Marker Making, Laying Up and Cutting Operations I	2
FASHN 182, Making Your Own Dress Form	3
FASHN 183, French Draping	3
FASHN 310, Fashion Analysis/Clothing Selection	3
FASHN 320, Textiles	3
FASHN 330, History of Western World Fashion	3
FASHN 376, Advanced Design - Drafting, Advanced Flat Pattern Techniques and Computer Aided Design	3
Total Units Required	**36**

Suggested Electives
FASHN 158, 163, 164, 166, 167, 198, 352, 355, 356, 360, 370; ACCT 301 or 101; ART 300, 320, 336; BUS 106, 220; CISC 300; MGMT 372; MKT 310; WEXP 298.

Associate in Arts (A.A.) Degree
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Custom Apparel Construction and Alterations

Associate in Arts Degree
Career Certificate

Students enrolled in this program will have developed advanced skills in apparel construction as well as custom techniques to repair, fit, and alter ready-to-wear clothing.

Career Opportunities: Entry level jobs in this field can be found in dry-cleaning establishments, clothing stores, and department stores. This program can also prepare the student for self-employment. Other examples include, Alteration Specialist, Costume Designer, Museum Curator, Textile Restoration, Bridal Consultant, Entrepreneur, Design Room Assistant, First Pattern Maker, Grader, and Tailor.

Required Program	Units
FASHN 320, Textiles	3
FASHN 310, Fashion Analysis/Clothing Selection	3
FASHN 150, Fundamentals of Sewing/Beginning Sewing	3
FASHN 351, Principles of Apparel Construction/Intermediate Sewing	3
FASHN 352, Advanced Apparel Construction/Couture Sewing	3
FASHN 370, Pattern Adjustment and Fit	3
FASHN 372, Pattern Making and Design	3
FASHN 355, Traditional Tailoring, or FASHN 356, Contemporary Tailoring	3
FASHN 198, Sewing as a Business	3
FASHN 360, Clothing Alterations	3
FASHN 182, Making Your Own Dress Form	3
FASHN 183, French Draping	3
FASHN 153, Serger Fundamentals	3
Total Units Required	**39**

Suggested Electives
ACCT 101, 301; ART 320, BUS 106, 220; CISC 300, FASHN 140, 158, 162, 163, 164, 165, 166, 167, 355, 356, 376; MGMT 372; WEXP 298

Associate in Arts (A.A.) Degree
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Production Sewing

Certificate of Completion, Level 3

Career Opportunities: Students enrolled in this certificate program will learn how to do production sewing for apparel or other sewn products. Entry level jobs can be found in apparel production plants or workrooms. This program can also prepare the student for self-employment or entrepreneurship.

Required Courses	Units
FASHN 150, Fundamentals of Sewing/Beginning Sewing	3
FASHN 351, Principles of Apparel Construction	3
FASHN 153, Serger Fundamentals	3
Total Units Required	**9**

Suggested Electives
FASHN 320, 198, 158; WEXP 298.

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better or equivalent.

Interior Design Sewing

Associate in Arts Degree
Career Certificate

A student with the Interior Design Sewing A.A. Degree will be prepared to become a professional within the Interior Design field. Interior designers identify, research, and creatively solve challenges pertaining to the function of interior design environments in order to protect the health, safety and welfare of the public. This dynamic field pertinent to the California economy addresses function and aesthetics, lifestyle, technology, historical perspectives, environmental needs, demographic changes, legislative issues and universal design. Academic and technical preparation essential to the profession include analysis and synthesis of user needs, business, technical and communication skills, as well as creative expression, fabrication skills and development.

Working conditions and hours can be varied and may involve travel. Salaries are based on education, experience and job responsibilities. Incomes of experienced professionals vary greatly depending on location, volume of business and their reputation. The greatest number of job opportunities and highest wages generally exist in larger urban areas. Employment opportunities can be found from the sole practitioner to large corporate firms.

Career Opportunities: The Interior Design Sewing A.A. degree provides students with an option for a career or the requisite foundation for transfer to a four-year college or university. Completion of an A.A. degree in Interior Design Sewing requiring a minimum of 60 semester credit hours provides students with design assistant level qualifications in production, installation, planning, illustration, specifications, estimating, management, merchandising, self-employment or entrepreneurship.

Required Program	Units
FASHN 320, Textiles	3
FASHN 150, Fundamentals of Sewing/Beginning Sewing	3
IDES 300, Fundamentals of Interior Design	3
IDES 322, Materials of Interior Design	3
FASHN 153, Serger Fundamentals	3
FASHN 162, Industrial Sewing - Sewing Machine Operations I	2
FASHN 165, Apparel Production - Marker Making, Laying Up and Cutting Operations I	2
IDES 402.1, Soft Furnishings Fabrication- Table Accessories	1
IDES 402.2, Soft Furnishings Fabrication- Pillows, Cushions, and Chair Coverings	1
IDES 402.3, Soft Furnishings Fabrication- Bedding	1
IDES 403.1, Soft Furnishings Fabrication- Window Shades	1
IDES 403.2, Soft Furnishings Fabrication- Curtains and Draperies	1
IDES 403.3, Soft Furnishings Fabrication- Window Top Treatments	1
Total Units Required	**25**

Suggested Electives
ACCT 101, 301; ART 320, BUS 106, 130, 220; CISC 300; FASHN 163, 164, 166, 167, 198, 351; MGMT 372, WEXP 298.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Fashion (FASHN)

FASHN 140 Fashion Illustration 2 Units
Formerly: FCS 73
Advisory: ENGWR 100 and ENGRD 110 with grades of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
Students will capture fashion styles and ideas and translate them to paper. The course is designed to develop graphic skills necessary for students planning a fashion career; learn principles of design factors which motivate fashion changes; and explore applications of principles of color and design, texture, line and proportion recognition. Students will create a portfolio of specific illustration techniques as applied to fashion promotion, fashion design or theatrical costume design industries. This course may be taken twice for credit.

FASHN 150 Fundamentals of Sewing/ Beginning Sewing 3 Units
Formerly: FCS 23A
Prerequisite: None
Advisory: Completion of ENGRD 110, ENGWR 100, and MATH 34 with grades of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course covers the basic techniques for construction of men's, women's, and children's clothing, and home accessories; including selecting materials and sewing supplies; sewing machine operation; instructions in reading patterns and simple construction techniques. One field trip is required. This course is designed for the student with little or no previous sewing experience and may be taken twice for credit.

FASHN 153 Serger Fundamentals 3 Units
Formerly: FCS 68
Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This course will cover basic operation, care and use of serger sewing machines. Students will also learn about the various types, features, accessories, tools and notions necessary for applications in constructing serged projects. This course may be taken twice for credit.

FASHN 158 Fashion Accessories 3 Units
Formerly: FCS 66
Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
Students will learn the basic techniques necessary for the design, construction and marketing of headgear, soft jewelry, bags, scarves, belts, shoes and other contemporary fashion accessories. Topics will also include resources of materials and trims, production and marketing techniques, and the history and identification of various accessory items, along with basic manufacturing processes. This course may be taken twice for credit.

FASHN 162 Industrial Sewing - Sewing Machine Operations I 2 Units
Prerequisite: FASHN 351 and FASHN 153 with grades of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course provides training in basic industrial sewing machine operation. Students will learn to thread, operate and conduct minor maintenance on a variety of industrial sewing machines doing basic construction operations while maintaining quality of production and observing health and safety procedures. One field trip is required. This course may be taken twice for credit.

FASHN 163 Industrial Sewing - Sewing Machine Operations II 2 Units
Prerequisite: FASHN 162 with a grade of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course provides training in advanced industrial sewing machine operations. Students will learn to sew garments involving complex operations on a variety of industrial sewing machines doing more advanced construction operations while maintaining quality of production and observing health and safety procedures. One field trip is required. This course may be taken twice for credit.

FASHN 164 Industrial Sewing - Different Machine Types and Operations 2 Units
Prerequisite: FASHN 163 with a grade of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course provides training on advanced industrial sewing machine types and different sewing operations not covered in previous classes. Students will learn to sew garments using a variety of different industrial sewing machines involving complex operations handling materials, component parts and finished garments while maintaining quality of production and machinery and observing health and safety procedures. One field trip is required. This course may be taken twice for credit.

FASHN 165 Apparel Production - Marker Making, Laying Up and Cutting Operations I 2 Units
Prerequisite: FASHN 320, FASHN 351 and FASHN 372 with grades of "C" or better or equivalent.
Advisory: FASHN 376.
18 hours Lecture; 54 hours Laboratory
This course trains students in the skills and knowledge of making simple markers, laying up small pieces and rolls of materials and cutting an uncomplicated lay with industrial cutting equipment. Safety, preparation and care of equipment and dispatch to the next operation are stressed. One field trip is required. This course may be taken twice for credit.

FASHN 166 Apparel Production - Marker Making, Laying Up and Cutting Operations II 2 Units
Prerequisite: FASHN 165 with a grade of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course trains students in the skills and knowledge of making

more complex markers, laying up multiple layers of materials and cutting complicated lays with industrial cutting equipment. Safety, preparation and care of equipment and dispatch to the next operation are stressed. One field trip is required. This course may be taken twice for credit.

FASHN 167 Apparel Mass Production 2 Units

Prerequisite: FASHN 164 and FASHN 166 with grades of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course explores the full range of mass production techniques including: Bundling cut work, making tickets and labels, clothing production setting up machinery for proper production sequence, fusing press workstations, basic garment pressing, advanced techniques to complete various sections of a garment, and finishing operations. Production processes within the industry will be explored. One field trip is required. This course may be taken twice for credit.

FASHN 182 Making Your Own Dress Form 3 Units

Formerly: FCS 64

Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is an innovative course in the construction of a personalized dress form which will duplicate the student's body in contour, bone structure and posture. Students will cast and cover their own dress or body form and learn how to use the form in various ways. This course may be taken twice for credit.

FASHN 183 French Draping 3 Units

Formerly: FCS 65

Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
Advisory: FASHN 372 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is an advanced creative course designed to give the student variation in dressmaking design through the media of fabric manipulation or draping on full scale or half-scale dress forms. Students will drape several garments in muslin and one final garment in fashion fabric. This course may be taken twice for credit.

FASHN 190 Fashion Sales 3 Units

Formerly: FCS 80

Prerequisite: None
Advisory: Completion of ENGRD 110 and ENGWR 100 and MATH 34 with grades of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course surveys job opportunities and needed skills in the apparel and interior fashion product sales profession. The course is designed to give the student the basics of fashion terminology, product knowledge and techniques for consumer product selection. Good customer service, retail math, using tools of the transaction and additional job qualities and skills to maintain employability are also included. One field trip will be required to give students a chance to integrate classroom knowledge with first-hand experiences.

FASHN 198 Sewing as a Business 3 Units

Formerly: FCS 59

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340, ESLW 340 and ESL 114; and MATH 34; with grades of "C" or better.
54 hours Lecture
This course is designed for the fashion industry, sewing, interior design, and related fields. Students will study the necessary business practices and practical aspects of setting up and running their own sewing-related businesses. Topics will include: ethical practices, methods of compensation, establishing clients' budget, estimating costs, purchasing, billing, marketing, and sales. Students will develop a model business plan and explore resources necessary to be successful in their (fashion industry, sewing, interior design or related fields) business. One field trip is required.

FASHN 310 Fashion Analysis/Clothing Selection 3 Units

Formerly: FCS 21

Prerequisite: Eligibility for ENGWR 100 and ENGRD 110 and MATH 34 with grades of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
This is an introduction to the socio-psychological aspects of clothing within the U.S. culture. U.S. clothing behavior (economic and political influences on fashion, fashion terminology; past and present fashion cycles) are contrasted with other contemporary cultures around the world. Essential theories of color perception and applied problems dealing with color interaction, line design and texture will be presented. Analysis of wardrobe planning, buying ready-to-wear, care and maintenance of family clothing are included.

FASHN 320 Textiles 3 Units

Formerly: FCS 20

Prerequisite: Eligibility for ENGWR 100 and ENGRD 110 and MATH 34.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a consumer-oriented introduction to textiles which includes study of the characteristics of fibers, yarns, fabric construction including weaves and fabric finishes. Information related to consumer satisfaction in selecting and caring for fabrics, apparel, furnishing and other textile products in daily use will be presented.

FASHN 330 History of Western World Fashion 3 Units

Formerly: FCS 22

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 110 with grades of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course is a survey of the history of western world fashion from ancient times to the 21st century. Students will identify apparel design details and trace the evolution of garments and the specific periods in which they were popular as reflected in political, economic and social trends.

FASHN 351 Principles of Apparel Construction/Intermediate Sewing 3 Units

Formerly: FCS 23B

Prerequisite: FASHN 150 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course presents intermediate apparel construction techniques, such as working with more complex patterns, notions, fabrics, and pattern adjustments. Comprehensive custom sewing techniques for men and women will be applied to four student-made garments. The course may be taken twice for credit.

FASHN 352 Advanced Apparel Construction/Couture Sewing 3 Units

Formerly: FCS 23C

Prerequisite: Students must have the proficiencies acquired in FASHN 351 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course covers apparel construction techniques applied to several challenging designs that will be student-made using unusual and difficult fabrics. Use of couture as well as new construction techniques, applied to details and finishes found on more expensive garments will be explored. The course may be taken twice for credit.

FASHN 355 Traditional Tailoring 3 Units

Formerly: FCS 28

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The course is designed for the advanced clothing construction student who wishes to increase knowledge and proficiency in the many aspects of traditional tailoring. Instruction will include custom fitting, equipment, and garment components selection and steps in the very fine handwork details and techniques of traditional tailoring for men's and women's suits and coats. This course may be taken twice for credit.

FASHN 356 Contemporary Tailoring 3 Units

Formerly: FCS 29

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is for the advanced clothing construction student who wishes to increase knowledge and proficiency in the many aspects of contemporary tailoring. Instruction will include speed methods in custom fitting; equipment and garment components selection; and steps and techniques of contemporary tailoring for faster construction of men's and women's suits and coats. Field trips required. This course may be taken twice for credit.

FASHN 360 Clothing Alterations 3 Units

Formerly: FCS 60

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides instruction in techniques for operating commercial sewing machines, pressing equipment, and sewing tools to perform the various sewing skills in making ready-to-wear alterations and repairs. The student will analyze properly and improperly fitted garments and predict and perform alterations necessary for women's, men's and children's ready-to-wear garments. The course also teaches how to set up and operate your own in-home-based sewing business. Several field trips are required. This course may be taken twice for credit.

FASHN 370 Pattern Adjustment and Fit 3 Units

Formerly: FCS 25

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is a study of how to make patterns fit, measuring procedures and the relationship to a variety of body fitting differences. Extensive pattern adjustment techniques will be demonstrated, practiced and applied to the student's own "basic" dress pattern which will become the student's sloper for flat pattern design. Garment fitting techniques and refinements will be done through garment alterations on a fitting "muslin" of the "basic" dress. This class may be taken twice for credit.

FASHN 372 Pattern Making and Design 3 Units

Formerly: FCS 26

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers an introduction to the flat pattern method of apparel design. Students will develop/refine a personal sloper from a commercial basic pattern. This sloper will be used to create various full size patterns and a student designed garment. Pattern making techniques will be perfected with 1/2 or 1/4 size patterns. Students will learn how to combine pattern design variations to create new designs. This course may be taken twice for credit.

FASHN 376 Advanced Design - Drafting, Advanced Flat Pattern Techniques and Computer Aided Design **3 Units**

Formerly: FCS 27

Prerequisite: FASHN 372 with a grade of "C" or better.
Advisory: CISC 300
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course will include how to draft basic pattern pieces from measurements, create advanced slopers for the torso, basic jacket and knits and create advanced flat pattern design details. Students will be introduced to CAD, computer aided design. Everything that can be done by hand, can be done on the computer including: drawing flats (fashion illustrations of garment designs), pattern measuring and adjustments, flat pattern design techniques, "digitizing-in" patterns, grading patterns, layout and marker making and plotting pattern pieces. This course may be taken twice for credit.

Interior Design (IDES)

IDES 300 Fundamentals of Interior Design **3 Units**

Formerly: FCS 40A

Prerequisite: None
Advisory: Completion of ENGRD 110 or ENGWR 100, and MATH 100 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers the study and application of design principles and elements; influences of historical, cultural, and functional design factors; and the selection and arrangement of interior furnishings. An overview of career options in interior design will be included.

IDES 322 Materials of Interior Design **3 Units**

Formerly: FCS 40B

Prerequisite: None
Advisory: Completion of IDES 300, ENGRD 110, ENGWR 100, and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers properties and specific concerns of interior finish materials. Textiles, floor coverings, paint and wall coverings, window treatments, furnishings and counter materials will be included.

IDES 402 Soft Furnishings Fabrication - Home Accessories **3 Units**

Formerly: FCS 69A

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: FASHN 351, IDES 300 and IDES 322 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The students will learn the application of sewing skills to create interior design soft furnishing projects such as table accessories, pillows, cushions, chair coverings, and bedding. Students will create projects using the unique tools, fabrics and techniques used by professionals. Three fieldtrips are required.

IDES 402.1 Soft Furnishings Fabrication- Table Accessories **1 Unit**

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FASHN 153; and FASHN 320; and FASHN 351; and IDES 300; and IDES 322; and LIBR 318; and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
12 hours Lecture, 18 hours Laboratory
Students will be introduced to skills needed for table accessory fabrication. Students will create projects such as table runners and table cloths, using the specialized tools, fabrics, and techniques used by professionals. One field trip is required to observe an interior design production facility. This course may be taken twice for credit.

IDES 402.2 Soft Furnishings Fabrication- Pillows, Cushions, and Chair Coverings **1 Unit**

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FASHN 153; and FASHN 320; and FASHN 351; and IDES 300; and IDES 322; and LIBR 318; and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
12 hours Lecture, 18 hours Laboratory
Students will be introduced to skills needed for pillow, cushion, and chair-covering fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals. One field trip is required to observe an interior design production facility. This course may be taken twice for credit.

IDES 402.3 Soft Furnishings Fabrication- Bedding **1 Unit**

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FASHN 153; and FASHN 320; and FASHN 351; and IDES 300; and IDES 322; and LIBR 318; and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
12 hours lecture, 18 hours laboratory
Students will be introduced to skills needed for bedding fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals. One field trip is required to observe an interior design production facility. This course may be taken twice for credit.

IDES 403 Soft Furnishings Fabrication-Window Treatments 3 Units

Formerly: FCS 69B

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: FASHN 351; and IDES 300; and IDES 322 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The students will learn the application of sewing skills to create interior design soft furnishing projects such as window shades, curtains, draperies, and window top treatments. Students will create projects using the unique tools, fabrics and techniques that professionals use. Three fieldtrips are required.

IDES 403.1 Soft Furnishings Fabrication-Window Shades 1 Unit

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FASHN 153; and FASHN 320; and FASHN 351; and IDES 300; and IDES 322; and LIBR 318; and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
12 hours Lecture, 18 hours Laboratory
Students will be introduced to skills needed for window shade fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals. One field trip is required to observe an interior design production facility. This course may be taken twice for credit.

IDES 403.2 Soft Furnishings Fabrication-Curtains and Draperies 1 Unit

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FASHN 153; and FASHN 320; and FASHN 351; and IDES 300; and IDES 322; and LIBR 318; and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
12 hours Lecture, 18 hours Laboratory
Students will be introduced to skills needed for curtain and drapery fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals. One field trip is required to observe an interior design production facility. This course may be taken twice for credit.

IDES 403.3 Soft Furnishings Fabrication-Window Top Treatments 1 Unit

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FASHN 153; and FASHN 320; and FASHN 351; and IDES 300; and IDES 322; and LIBR 318; and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
12 hours Lecture, 18 hours Laboratory
Students will be introduced to skills needed for window top treatments and their fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals. One field trip is required to observe an interior design production facility. This course may be taken twice for credit.

Fine Arts

Associate in Arts Degree

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Fine Arts

Associate in Arts Degree

Required Program
A minimum of 18 units from a combination of courses in:
ART – Art
ARTH – Art history
HUM – Humanities
MUFHL – Music
MUIVI – Music
MUP – Music
MUSM – Music
PHOTO – Photography
TA – Theatre Arts
A student must take courses from at least four of the five areas.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Foreign Languages

Division of Humanities and Fine Arts
Chris Iwata, Dean
Auditorium 19a
916-558-2551

Arabic - ARABIC
Chinese - Cantonese/Mandarin-CANT/MAND
Farsi - FARSI
French - FREN
German - GERM
Japanese - JAPAN
Korean - KOREAN
Russian - RUSS
Spanish - SPAN
Tagalog - TGLG
Vietnamese - VIET

Arabic (ARABIC)

ARABIC 401 Elementary Arabic 5 Units

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: CSU
90 hours Lecture
This beginning course in Arabic emphasizes the development of listening, speaking, reading, and writing language skills; mastering the sound and writing systems of Arabic; understanding and using formulaic and functional phrases; using numbers; and mastering some basic morphological and syntactic features of the language.

ARABIC 402 Elementary Arabic 5 Units

Prerequisite: ARABIC 401 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: CSU
90 hours Lecture
This course allows students to further develop language skills in understanding, speaking, reading, and writing Arabic. Students will learn past and future tenses and how to express negation, expand vocabulary relating to people, places, objects, and professions; and learn to keep a written journal in Arabic. The emphasis is on communicating effectively in Arabic.

Chinese - Cantonese (CANT)

CANT 401 Elementary Cantonese 4 Units

Formerly: CHIN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (CANT 401 and CANT 402 or MAND 401 and MAND 402, maximum one series)/CSU
72 hours Lecture
This beginning course in Cantonese Chinese emphasizes pronunciation drill, sentence pattern analysis, and the development of language skills in listening, speaking, reading, and writing. Fundamentals of character reading and writing will be introduced.

CANT 402 Elementary Cantonese 4 Units

Formerly: CHIN 1B

Prerequisite: CANT 401 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: UC (CANT 401 and CANT 402 or MAND 401 and MAND 402, maximum one series)/CSU
72 hours Lecture
This course is the continuation of CANT 401. Further acquisition of language skills in listening, speaking, reading, and writing will be emphasized. Basic character reading and writing will

be introduced. Students will gain proficiency in understanding and speaking Cantonese in everyday situations.

CANT 411 Intermediate Cantonese 4 Units

Formerly: CHIN 2A

Prerequisite: CANT 402 with a grade of "C" or better or three years of high school Cantonese.
General Education: AA/AS Area C
Acceptable for credit: UC (CANT 411 and 412 or MAND 411 and 412, maximum credit - one series)/CSU
72 hours Lecture
This course is the continuation of CANT 402 with a review of grammar and further development of reading and writing skills in Cantonese. Passages from Chinese literature and reading on Chinese culture will be studied.

CANT 412 Intermediate Cantonese 4 Units

Formerly: CHIN 2B

Prerequisite: CANT 411 with a grade of "C" or better; or four years of high school Cantonese.
General Education: AA/AS Area C
Acceptable for credit: UC (CANT 411 and 412 or MAND 411 and 412, maximum credit - one series)/CSU
72 hours Lecture
This course is the continuation of CANT 411 with further development of reading and writing skills in Cantonese. Passages from Chinese literature and reading on Chinese culture will be studied.

Chinese - Mandarin (MAND)

MAND 101 Conversational Mandarin, Elementary 3 Units

Formerly: CHIN 50A

Prerequisite: None
54 hours Lecture
This beginning course in conversational Mandarin emphasizes the development of oral language skills essential for understanding and speaking elementary Mandarin useful for everyday communication.

MAND 102 Conversational Mandarin, Elementary 3 Units

Formerly: CHIN 50B

Prerequisite: None
54 hours Lecture
This course is a continuation of MAND 101. Further acquisition of language skills in understanding and speaking will be emphasized. Additional vocabulary and sentence patterns will be introduced. Students will gain proficiency in understanding and speaking Mandarin in everyday situations.

MAND 401 Elementary Mandarin 4 Units

Formerly: CHIN 11A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (MAND 401 and MAND 402 or CANT 401 and CANT 402, maximum one series)/CSU
72 hours Lecture; 18 hours Laboratory
This beginning course in Mandarin Chinese emphasizes pronunciation drill, sentence pattern analysis, and the development of language skills in listening, speaking, reading, and writing. Character reading and writing are introduced. The students will also gain a better understanding of Chinese culture through the study of its language.

MAND 402 Elementary Mandarin 4 Units

Formerly: CHIN 11B

Prerequisite: MAND 401 with a grade of "C" or better or equivalent.
General Education: AA/AS Area C.
Acceptable for credit: UC (MAND 401 and MAND 402 or CANT 401 and CANT 402, maximum one series)/CSU
72 hours Lecture; 18 hours Laboratory
This beginning course in Mandarin Chinese emphasizes pronunciation drill, sentence pattern analysis, and the development of language skills in listening, speaking, reading, and writing.

MAND 405 Chinese Characters 1 Unit

Formerly: CHIN 20

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture
This is a beginning course in the study of Chinese characters. Fundamentals of the Chinese written language will be taught with an emphasis on reading and writing Chinese characters common in daily usage. This course may be repeated once for credit.

MAND 411 Intermediate Mandarin 4 Units

Formerly: CHIN 12A

Prerequisite: MAND 402 with a grade of "C" or better; or four years high school Mandarin.
General Education: AA/AS Area C
Acceptable for credit: UC (MAND 411 and 412 or CANT 411 and 412, maximum credit - one series)/CSU
72 hours Lecture
This course is the continuation of MAND 402 with a review of grammar and further development of reading and writing skills in Mandarin. Passages from Chinese literature and reading on Chinese culture will be studied.

MAND 412 Intermediate Mandarin 4 Units

Formerly: CHIN 12B

Prerequisite: MAND 411 with a grade of "C" or better; or four years high school Mandarin.
General Education: AA/AS Area C
Acceptable for credit: UC (MAND 411 and 412 or CANT 411 and 412, maximum credit - one series)/CSU
72 hours Lecture
This course is the continuation of MAND 411 with further development of reading and writing skills in Mandarin. Passages from Chinese literature and readings on Chinese culture will be studied.

Farsi (FARSI)

FARSI 401 Elementary Farsi 4 Units

Formerly: FARSI 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This beginning course is an introduction to Farsi, the modern language of Iran. The course will focus on the development of all language skills (listening, reading, speaking and writing) in a cultural context. Students will learn basic communication skills in the language as well as gaining a deeper understanding of the peoples and culture of Iran.

FARSI 402 Elementary Farsi 4 Units

Formerly: FARSI 1B

Prerequisite: FARSI 401 with a grade of "C" or better or two years of high school Farsi.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a second semester course in Farsi, the modern language of Iran. The course continues with the development of all language skills: listening, reading, speaking and writing. The student further develops his/her communication competency in the language and increases his/her understanding of Farsi speaking cultures.

French (FREN)

FREN 101 Conversational French, Elementary 3 Units

Formerly: FREN 50A

Prerequisite: None
54 hours Lecture
Course provides students with basic listening and speaking skills and with limited facility in reading and writing skills. Major emphasis is on the ability to express one's basic needs with accurate pronunciation and intonation. Audio-lingual practice helps to achieve above goals. This course may be taken twice for credit.

FREN 102 Conversational French, Elementary 3 Units

Formerly: FREN 50B

Prerequisite: FREN 101.
54 hours Lecture
This course provides further development of a basic understanding of spoken French; emphasis upon vocabulary, idioms, and expressions in daily use. This course may be taken twice for credit.

FREN 111 Conversational French, Intermediate 3 Units

Formerly: FREN 51A

Prerequisite: FREN 102 and 402 or qualifying score on Language Placement Test.
54 hours Lecture
This third semester course is conducted exclusively in French and provides students with continued practice in developing their skills for meaningful communication in the target language. Students will engage in interactive social situations based on practical and relevant topics. This course may be taken twice for credit.

FREN 112 Conversational French, Intermediate 3 Units

Formerly: FREN 51B

Prerequisite: None
54 hours Lecture
The emphasis of this course is on further development of the student's speaking ability and self-expression in relevant situations. The concentration of this course of study is on the correct verb and tense mastery and on the expansion of vocabulary as well as further mastery of useful idioms and language patterns. The course may be taken for credit.

FREN 401 Elementary French 4 Units

Formerly: FREN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This course offers the basic language skills with special emphasis on listening, comprehension, and speaking. Provides thorough training in the fundamentals of structure so that the student shall learn to understand spoken French; to speak French with reasonable fluency and accurate pronunciation; and to read and write French at an elementary level.

FREN 402 Elementary French 4 Units

Formerly: FREN 1B

Prerequisite: FREN 401 with a grade of "C" or better or two years high school French.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
In this course there will be further development of the skills outlined in FREN 401, with emphasis on authentic French dialogues with comprehensive pronunciation drills, systematic and concise description of structures, cultural readings and numerous exercises for both oral and written practice.

FREN 411 Intermediate French 4 Units

Formerly: FREN 2A

Prerequisite: FREN 402 with a grade of "C" or better or three years of high school French.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
More emphasis is put on fluency and "free" composition combined with an analytical review of grammar structures on an intermediate level. Topics of current events in France are discussed and selections of French literature are read, interpreted and analyzed.

FREN 412 Intermediate French 4 Units

Formerly: FREN 2B

Prerequisite: FREN 411 with a grade of "C" or better or four years of high school French.
General Education AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
There will be further development of the skills outlined in French 411 with emphasis on the reading, interpretation and analysis of French literary works.

German (GERM)

GERM 101 Conversational German, Elementary 3 Units

Formerly: GERM 50A

Prerequisite: None
54 hours Lecture
The course provides speaking and understanding skills and a limited facility in the skills of reading and writing. The vocabulary needed in everyday situations is stressed. Students will be introduced to various cultural aspects of the German-speaking countries. This course may be taken twice for credit.

GERM 401 Elementary German 4 Units

Formerly: GERM 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a beginning course providing for the development of speaking, writing, understanding, and reading skills. The readings focus on German culture.

GERM 402 Elementary German 4 Units

Formerly: GERM 1B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This course is a continuation of GERM 401. Speaking, writing, understanding, and reading skills will be further developed. The readings focus on German culture.

GERM 411 Intermediate German 4 Units

Formerly: GERM 2A

Prerequisite: GERM 402 with a grade of "C" or better; or three years of high school German.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU

72 hours Lecture
This course includes the reading and discussion of 20th century German literature, continued development of reading, writing, understanding, and speaking skills, and a grammar review. The course also provides insights into German culture through an understanding and application of the language.

GERM 412 Intermediate German 4 Units
Formerly: GERM 2B

Prerequisite: GERM 411 with a grade of "C" or better; or four years of high school German.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This course is a continuation of GERM 411 with further development of reading and writing skills in German. Literature will be analyzed and discussed to provide a deeper understanding of both the German language and culture.

Japanese (JAPAN)

JAPAN 101 Conversational Japanese, Elementary 3 Units
Formerly: JAPAN 50A

Prerequisite: None
54 hours Lecture
JAPAN 101 teaches pronunciation, intonation, basic vocabulary, idioms, and grammar of spoken Japanese. The grammar emphasizes word order, postpositions and some conjugation in simple sentences. The course includes introduction to Japanese culture. This course may be repeated once for credit.

JAPAN 401 Elementary Japanese 4 Units
Formerly: JAPAN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
JAPAN 401 teaches pronunciation, intonation, basic vocabulary and grammar of spoken Japanese. The grammar emphasis is word order, postpositions and some conjugation in simple sentences. Students are required to learn Hiragana script. The course includes introduction to Japanese culture.

JAPAN 402 Elementary Japanese 4 Units
Formerly: JAPAN 1B

Prerequisite: JAPAN 401 with a grade of "C" or better; or two years of high school Japanese.
General Education: AA/AS Area C.
Acceptable for credit: UC /CSU
72 hours Lecture
JAPAN 402 continues teaching vocabulary, idioms, and grammar, including more complex subordinate phrases and clauses. In addition to Hiragana, students are required to learn Katakana and simple Kanji ideographs. Recognition and application of these linguistic concepts occurs within the context of an examination of Japanese culture.

JAPAN 411 Intermediate Japanese 4 Units
Formerly: JAPAN 2A

Prerequisite: JAPAN 402 with a grade of "C" or better; or three years high school Japanese.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
JAPAN 411 continues teaching vocabulary, idioms, and grammar with emphasis on more complex sentence patterns requiring understanding of additional verb forms. Students are required to learn about 150 new Kanji idiographs. Students are encouraged to learn some Japanese language skills independently using media and teaching aids. Discussions on Japanese culture are continued.

JAPAN 412 Intermediate Japanese 4 Units
Formerly: JAPAN 2B

Prerequisite: JAPAN 411 with a grade of "C" or better; or four years high school Japanese.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
JAPAN 412 continues teaching vocabulary, idioms, and grammar with emphasis on Japanese speech styles. Students are required to learn additional Kanji and to read and write simple sentences of literary Japanese. The course includes discussions of some aspects of Japanese culture.

Korean (KOREAN)

KOREAN 401 Elementary Korean 4 Units
Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
Elementary Korean 401 is designed for those who have minimal or no knowledge of Korean. The course will provide equal emphasis on reading, writing, speaking and listening skills. The course is intended to help students acquire and develop a solid foundation of the modern Korean language.

KOREAN 402 Elementary Korean 4 Units
Prerequisite: Korean 401 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
The basic language skills of reading, writing, speaking and comprehension are further developed in this course. The class introduces students to Korean script, hangul, as well as more complex grammatical concepts including connectives and indefinite pronouns.

Russian (RUSS)

RUSS 401 Elementary Russian 4 Units
Formerly: RUSS 1A

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
RUSS 401 teaches Russian alphabet pronunciation, grammar, elementary reading, writing and conversation. The grammar emphasizes noun declension and verb conjugation. The course includes discussions on Russian culture.

RUSS 402 Elementary Russian 4 Units
Formerly: RUSS 1B

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
RUSS 402 continues teaching elementary reading, writing and conversation. The grammar includes noun and adjective declensions and verb conjugation. Discussion on Russian culture is continued.

Spanish (SPAN)

SPAN 101 Conversational Spanish, Elementary 3 Units
Formerly: SPAN 50A

Prerequisite: None
54 hours Lecture
This introductory course provides students with basic elementary skills of understanding and speaking Spanish. Common expressions needed to communicate in everyday living will be stressed, and emphasis will be on conversation. Students will be introduced to various cultural aspects of different Spanish speaking countries. This course may be repeated once for credit.

SPAN 102 Conversational Spanish, Elementary 3 Units
Formerly: SPAN 50B

Prerequisite: None
54 hours Lecture
This second semester course will continue to provide students with basic elementary skills of understanding and speaking Spanish. Common expressions needed to communicate in everyday living will be stressed. Emphasis will be on conversation and correct pronunciation. Students will be introduced to various cultural aspects of different Spanish speaking countries. This course may be repeated once for credit.

SPAN 111 Conversational Spanish, Intermediate 3 Units
Formerly: SPAN 51A

Prerequisite: None
54 hours Lecture
This third semester course is conducted exclusively in Spanish, and it provides students with continued practice in developing their skills for meaningful communication in the target language. Students will engage in interactive, social situations based on practical and relevant topics being studied. This course may be repeated once for credit.

SPAN 112 Conversational Spanish, Intermediate 3 Units
Formerly: SPAN 51B

Prerequisite: None
54 hours Lecture
The emphasis of this course is primarily to develop the speaking ability of the students' self-expression in brief, practical discussions. The concentration of this course is on verb-tense mastery, vocabulary, and idioms. This course may be repeated once for credit.

SPAN 401 Elementary Spanish 4 Units
Formerly: SPAN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This beginning course in Spanish is conducted almost entirely in Spanish. It emphasizes the development of language skills in listening, reading, speaking, and writing by focusing on the application of simple grammatical concepts.

SPAN 402 Elementary Spanish 4 Units
Formerly: SPAN 1B

Prerequisite: Grade of "C" or better in SPAN 401.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
The four skills - understanding, speaking, reading and writing - are further developed in this course. The class studies the following grammatical concepts: indirect objects, the preterite tense, the reflexive, the formal command, the present subjunctive, and the imperfect tense. The students prepare short oral talks in most of the above. Also, they do short paragraphs in most of the above in class and outside of class. The vocabulary includes the home, vacations, jobs, childhood and youth, and the restaurant. The emphasis is on speaking.

SPAN 411 Intermediate Spanish 4 Units
Formerly: SPAN 2A

Prerequisite: Grade of "C" or better in SPAN 402.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a third semester course in Spanish which completes the presentation of basic Spanish grammar and the development of all language skills (listening, reading, speaking, and writing) in a cultural context with special emphasis on communication.

SPAN 412 Intermediate Spanish 4 Units

Formerly: SPAN 2B

Prerequisite: Grade of "C" or better in SPAN 411.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a fourth semester course designed to review the grammar, vocabulary, and composition acquired in the first three semesters. Contextualized and culturally appropriate exercises and readings of modern texts of the history, geography, art, literature, and cultural values of the Hispanic peoples are used. The four language skills (listening, reading, speaking, and writing) are further developed through special emphasis on communication.

SPAN 431 Spanish for Business 3 Units

Formerly: SPAN 21A

Prerequisite: SPAN 411.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course, conducted entirely in Spanish, is designed to develop language skills in speaking, reading, writing, and listening comprehension using business style situations. The course will also focus on a concise review of key grammar points.

SPAN 432 Spanish for Business 3 Units

Formerly: SPAN 21B

Prerequisite: SPAN 411.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course, conducted entirely in Spanish, is designed to develop language skills in speaking, reading, writing, and listening comprehension using business style situations. The course will also focus on a concise review of key grammar points.

SPAN 434 Spanish for the Professions - Intermediate 3 Units

Formerly: SPAN 52A

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This in an intermediate course designed for persons in law enforcement, business and finance, social services and medical personnel. The emphasis of the course is on acquiring verbal facility in interviewing, collecting data, giving instructions and general courtesies. The course will help students to acquire language proficiency while reviewing and broadening the grammar foundation attained in elementary Spanish. It will introduce specific vocabulary necessary for professionals to successfully communicate in a professional situation. Cultural and behavioral attitudes appropriate for relating to persons of Hispanic heritage will be suggested. The course may be repeated once for credit.

SPAN 435 Spanish for the Professions - Intermediate 3 Units

Formerly: SPAN 52B

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a continuation of SPAN 434. Intermediate course for persons in law enforcement, business and finance, social services, and medical personnel. The emphasis of the course is on acquiring verbal facility in interviewing, collecting data, giving instructions and general courtesies. Students will continue reviewing and broadening grammar foundations and introducing specific vocabulary necessary for professionals to successfully communicate in a professional situation. Cultural and behavioral attitudes appropriate for relating to Hispanics will be suggested.

Tagalog (TGLG)

TGLG 401 Elementary Tagalog 4 Units

Formerly: TGLG 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
TGLG 401 is an introduction to Tagalog. The course teaches Tagalog sounds, pronunciation, pitch and intonations, basic vocabulary and grammar. Grammar will emphasize simple sentences, sentence formations, verb conjugations and functions. The development of basic skills (listening, speaking, and writing) in a cultural context will be a special focus.

TGLG 402 Elementary Tagalog 4 Units

Formerly: TGLG 1B

Prerequisite: Completion of TGLG 401 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a second semester course in Tagalog that continues with the basic grammar and further development of all language skills. TGLG 402 continues teaching vocabulary, idioms and more complex phrases and readings. Discussion of Filipino-American culture continues.

Vietnamese (VIET)

VIET 401 Elementary Vietnamese 4 Units

Formerly: VIET 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This course will provide an introduction to the Vietnamese language at the Novice Low Level, which is characterized by an emerging ability to understand and produce appropriate responses in high-frequency situations utilizing learned materials, standardized messages, phrases and expressions including numbers, dates, days, weather, time, foods, and Vietnamese names. Speaking and writing will be comprehensible to a sympathetic listener, including a native speaker used to interacting with non-native speakers. Verbal written expression is limited to short, culturally-appropriate communication, including kinship terms and nouns of address. Students will acquire a knowledge and an appreciation of the geography, culture and people of regions where Vietnamese is spoken and of Vietnamese-speakers' contributions to North American and world-wide culture.

VIET 402 Elementary Vietnamese 4 Units

Formerly: VIET 1B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This course will provide continued refinement of the Novice Low Level skills begun in 401 while working toward the Novice Mid and High Levels. The student will gain increased accuracy; and improve ability to understand and produce appropriate responses in high frequency situations utilizing learned materials, standardized messages, phrases and expressions, including numbers, dates, days, weather, time, foods, and name of family members; and improved ability to understand discourse on an increased number of topics. Speaking and writing will be comprehensible to a sympathetic listener, including a native speaker used to interacting with non-native speakers, and will demonstrate an emerging ability to create with the language. Verbal and written expression will be limited to short, culturally appropriate communication with greater accuracy and on a broader scale of topics than that found at the 401 level. Students will acquire knowledge and an appreciation of the geography, culture and people of regions where Vietnamese is spoken and of Vietnamese-speakers' contributions to North American and world-wide culture.

General Education, Transfer

Associate in Arts Degree

This degree is designed for students who plan to transfer to a California State University or University of California. It fulfills the lower-division general education requirement at UC campuses or CSU campuses. It is NOT appropriate for Engineering or Science majors or other high unit majors. It provides students with all requirements to receive an Associate in Arts Degree from Sacramento City College.

NOTE: Students must meet with a counselor if they are pursuing a General Education Transfer major since it is not appropriate for every transfer major. This degree does not guarantee admission to a CSU or UC. A counselor can assist students with that process.

Required Program

Complete option A or B below

Option A

California State University
General Education - Breadth Requirements (39 units minimum):

Communication: Oral, Written, Critical Thinking (9 units)

Physical Universe and Its Life Forms (9 units)

Arts, Literature, Philosophy, Foreign Language (9 units)

Social, Political, Economic Institutions and Behavior (9 units)

Lifelong Understanding (3 units)

OR
Option B

Intersegmental General Education Transfer Curriculum (IGETC): 37-40 units minimum

English Communication (9 units for CSU; 6 units for UC)
Mathematical Concepts and Quantitative Reasoning (3 units)
Arts and Humanities (9 units)
Social and Behavioral Sciences (9 units)
Physical and Biological Sciences (7 units)

Complete the following additional Associate in Arts Degree requirements:

- **Living Skills**

  Required if Option B is used.

  See AA/AS Graduation Requirements, Area E, for a list of courses.

- **Ethnic/Multicultural Studies - one course**

  Required if a course from General Education does not already meet this requirement.

  See AA/AS Graduation Requirements, Area F, for a list of courses.

- **Reading competency**

  Competency can be satisfied by test score or course completion.

  See AA/AS Graduation Requirements, Reading Competency, for specific requirements.

- **Complete electives if needed (see a counselor)**

Associate in Arts Degree (A.A.)
The Associate in Arts Degree will be earned by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

General Studies, Non-Transfer

Associate in Arts Degree

This program is designed for students who may not be planning to transfer to a four-year college and who need to explore possibilities before committing themselves to a program.

The program may serve the purposes of students who have been out of school and who need to review and assess their academic skills and interests before embarking on a definite major program.

Courses may be selected according to individual need. It is recommended that the exploratory student try a variety of courses involving as many areas as possible. A major in General Studies, Non-Transfer, may be obtained by completing a minimum of 18 units in at least four areas from the following lettered groups (A-E). **Courses used to satisfy general education may NOT be used to meet the major requirement.** Consult a counselor for help with selecting appropriate courses.

Required Courses

Complete a minimum of 18 units from the following groups (A-E), including at least one course from four of the five groups.

Courses used to satisfy general education may NOT be used to meet the major requirement.

A. Learning Skills: Choose from the following: BUS 100, 106, 310; COMM 371; ENGRD 310, ENGWR 100; ESLG 310, 320; ESLR 310, 320, 340; ELSW 310, 320, 340; Foreign Language 401; MATH 100, 110; TECH 103 (same as MET 220).

B. Cultural Studies (Humanities): Choose from the following: ECE 360, 362; any Art, Humanities, Philosophy, Theatre Arts, Music.

C. General Social Sciences: Choose any from the following: ADMJ 300, 340; BUS 300, ECE 312, ECE 314, ECON 100; FCS 312, 314, 320, 326, 330; GERON 300, POLS 301; PSYC 356, 360, 367, 390; SOCSC 320, 325, 330, 332, 335, 336; SOC 300, 310, 312, 320, 335, 341.

D. Science Skills and Concepts: In addition to the courses in Area A, you can complete FCS 340. You cannot use the same course to satisfy this area.

E. Exploratory Business and Technology: BUS 300; GCOM 300; HCD 300 -any sections; BUSTEC 100.1, 100.2, 100.3, 115, 300.1, 300.2, 300.3; RE 300; TECH 310, 315.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

CELEBRATING 90 YEARS

Geography GEOG

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

GEOG 300 Physical Geography: Exploring Earth's Environmental Systems 3 Units

Formerly: GEOG 1

Prerequisite: None
Advisory: MATH 34 with a grade of "C" or better or equivalent, and ENGRD 310 and ENGWR 100, or equivalent, with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a spatial study of planet Earth's dynamic physical systems and processes. Topics include weather, climate, landforms, natural hazards, water resources, vegetation and soils. Emphasis is placed on interrelationships among Earth systems and processes and their resulting patterns and distributions. Relevant application of these concepts to today's world is also stressed to help students better understand Earth's physical environment as well as human-environmental interaction.

GEOG 301 Physical Geography Laboratory 1 Unit

Formerly: GEOG 11

Prerequisite: None
Corequisite: GEOG 300 may be taken concurrently or taken before GEOG 301.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course will provide laboratory study and field observation of selected geographic phenomena including: the earth grid system and location theory, weather and climate, rocks and landform, soils, flora, and fauna. Emphasis will be on applying scientific methods, techniques, using scientific instruments, working with maps, and interpreting spatial phenomena. There will be required field trips.

GEOG 306 Weather and Climate 3 Units

Prerequisite: None
Advisory: GEOG 300 with a grade of "C" or better; concurrent enrollment in MATH 34
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to atmospheric processes including energy and moisture exchanges, atmospheric pressure, winds, and global circulation. Severe weather conditions such as hurricanes and tornadoes are also studies. World, regional, and local climates are investigated. Student work will include weather observations and analysis of atmospheric data using charts, weather maps, and radar and satellite imagery from the Internet and other sources. Because this course involves the use of some quantitative concepts, students are encouraged to have fundamental algebraic skills prior to enrolling in this course.

GEOG 308 Introduction to Oceanography 3 Units

Prerequisite: None
Advisory: Completion of GEOG 300 with a grade of "C" or better.
General Education: AA/AS Area A
Acceptable for credit: CSU
54 hours Lecture
This course is an integrated study of water on Earth emphasizing physical oceanography. Topics include ocean and shoreline processes, plate tectonics, sea floor morphology, types and distribution of seafloor sediment, ocean sediment transport, ocean chemistry, ocean currents, marine resources, and environmental concerns. Regional oceanographic features are emphasized.

CELEBRATING 90 YEARS

GEOG 310 Human Geography: Exploring Earth's Cultural Landscapes — 3 Units

Formerly: GEOG 2

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100, or equivalent, with a grade of "C" or better.
General Education: AA/AS Areas B2 and F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course investigates the diverse patterns of human settlement, development, and movement on earth, which evolved as a result of cultural and environmental factors. Emphasis is placed on understanding global population and migration patterns, language, religion, ethnicity, political and economic systems, development issues, agriculture, and urbanization.

GEOG 312 Resources, Environment & People - Economic Geography — 3 Units

Formerly: GEOG 5

Prerequisite: None
Advisory: MATH 34 or equivalent with a grade of "C" or better and ENGRD 310 and ENGWR 100 or equivalent with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course describes the principal resources used by people in an environmental setting with regard to location and distribution of economic activities including farming, forestry, mining, manufacturing, trade and transportation. Emphasis will be placed on the various roles of government, industry, and society in creating and resolving problems of resource use and environmental quality. The course will compare and contrast the philosophy of growth and development with the "Small is Beautiful" or "Steady State" economic theories. Students will discuss survival strategies and alternatives such as solar energy and geothermal power.

GEOG 320 World Regional Geography — 3 Units

Formerly: GEOG 10

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100 or equivalent with a grade of "C" or better. For on-line delivery, familiarity with e-mail, web forums, and Internet multimedia.
General Education: AA/AS Area B2.
Acceptable for credit: UC (GEOG 320 or 480, maximum one course)/CSU
54 hours Lecture
This course is a global survey of the world's cultural regions. Basic geographic concepts and ideas are used to study and compare people, resources, landscapes, livelihood and economics, and origins across eight major geographic regions. The interaction of countries and regions, their global roles, and the conflicting pressures of cultural diversity versus globalization are presented. The widening gap between more developed and less developed countries is integrated throughout the course. Cultural and ethnic diversity, as it pertains to the expanding population of the United States, is evaluated throughout the course.

GEOG 322 Geography of California — 3 Units

Formerly: GEOG 21

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100, or equivalent, with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of California's physical environment, considering basic changes resulting from use of the resource base. Landforms, vegetation, and hydrographic features of the State and their interrelationships will be covered. This course will also stress the way California's landscape has been altered by human actions, thereby introducing the student to contemporary problems of resource management.

GEOG 330 Introduction to Geographic Information Systems — 3 Units

Formerly: GEOG 9

Prerequisite: None
Advisory: CISC 300, familiarity with IBM compatible computers and Microsoft Windows.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
A Geographic Information System (GIS) is a computer-based data processing tool used to manage and analyze spatial information. There are many applications for geographic information systems, including environmental assessment, analysis of natural hazards, site analysis for business and industry, resource management and land-use planning. This course introduces students to the tools and techniques of GIS including spatial data capture, management and analysis, as well as cartographic output through hands-on experience using GIS software.

GEOG 332 Introduction to Desktop GIS 2 Units

Formerly: GEOG 25A

Prerequisite: None
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course provides the foundation for and experience with using desktop geographical information system software (such as ArcView). It also provides the conceptual overview and hands-on experience needed to take advantage of the software's display and attribute querying functions. Emphasis is placed on basic software functionality, database construction, and management. This course is the first of a two-part series.

GEOG 333 Intermediate Desktop GIS 2 Units

Formerly: GEOG 25B

Prerequisite: GEOG 332.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course builds on the material presented in GEOG 322 and focuses on spatial analysis/querying and cartographic presentation. It provides the opportunity to utilize GIS software's advanced querying capabilities in analyzing spatial relationships in GIS. The course also introduces students to spatial analysis using available software.

GEOG 390 Field Studies in Geography .5-4 Units

Prerequisite: None
Acceptable for credit: CSU
3-24 hours Lecture; 18-144 hours Laboratory
This course involves the study of geographic principles and processes in selected locations of geographic interest. The course content will vary by destination but may include topics in physical geography (e.g., plant and animal communities, climate and weather, geology and geomorphology, natural hazards, environmental impacts, etc.), human geography (e.g., cultural landscapes, economic activities, transportation issues, land use patterns, etc.), and/or introduction to tools and techniques used for geographic field research (e.g., map and compass use, the Global Positioning System (GPS), Geographic Information Systems (GIS), etc.). Field excursions are required. This course may be taken four times under a new topic or destination.

GEOG 480 World Regional Geography, Honors 3 Units

Formerly: GEOG 10H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area B2
Acceptable for credit: UC (GEOG 320 or 480, maximum one course)/CSU
54 hours Lecture
This course is a global survey of the world's cultural regions. Basic geographic concepts and ideas are used to study and compare people, resources, landscapes, livelihood and economics, and origins across eight major geographic regions. The interaction of countries and regions, their global roles, and the conflicting pressures of cultural diversity versus globalization are presented. The widening gap between more developed and less developed countries is integrated throughout the course. Cultural and ethnic diversity, as it pertains to the expanding population of the United States, is evaluated throughout the course. This honors section uses intensive instructional methodology designed to challenge motivated students.

Geology GEOL

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

GEOL 302 Physical Geology 4 Units

Formerly: GEOL 1

Prerequisite: None
Advisory: MATH 100, ENGRD 310 and ENGWR 300, or ESLR 340 and ESLW 340, with grade of "C" or better; or equivalent.
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This in-depth course provides an understanding of the dynamic nature of Earth through the study of earth processes including plate tectonics, the major rock types and the minerals that comprise them, volcanoes, earthquakes and Earth's interior, crustal deformation and mountain building, fossils and deep time, energy and mineral resources, surface water and groundwater, oceans and coasts, glaciers, deserts, and global change. The course uses real-world examples of the scientific method as a foundation for understanding the geological sciences, and focuses on the relevance of geology to our everyday lives. One field trip may be required.

GEOL 305 Earth Science 3 Units

Formerly: GEOL 8

Prerequisite: None
Corequisite: GEOL 306.
Advisory: MATH 100, ENGRD 310 and ENGWR 300, or ESLW 340 and ESLR 340, with grade "C" or better; or equivalent.
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture
Earth science is an introductory science course that covers a broad range of topics including geology, oceanography, meteorology, and astronomy. Sub-topics are introduced and placed into a framework using the scientific method. Using recent, historical, and prehistorical earth science events as examples, the course emphasizes the interrelatedness of the various disciplines and focuses on Earth as a dynamic, synthetic, and continually evolving - yet stable - planet.

GEOL 306 Earth Science Laboratory 1 Unit

Formerly: GEOL 8L

Prerequisite: None
Corequisite: GEOL 305.
Advisory: MATH 100, ENGRD 310 and ENGWR 300, or ESLW 340 and ESLR 340, with grade "C" or better; or equivalent.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course emphasizes scientific methods and systematic laboratory procedures the earth sciences. It includes practical and written experience in rock and mineral identification, plate tectonics and earthquakes, river and glacial topography, geologic and topographic maps, oceanography and meteorology exercises, and concepts in astronomy. One field trip is required. Not available for credit to students who have completed GEOL 302.

GEOL 308 Introduction to Geology 3 Units

Formerly: GEOL 10

Prerequisite: None
Advisory: MATH 34, ENGRD 110 and ENGWR 100, or ESLR 320 and ESLW 320, with grade of "C" or better; or equivalent.
General Education: AA/AS Area A
Acceptable for credit: UC (no credit if taken after any GEOL course)/CSU
54 hours Lecture
This course provides an introduction to geological processes and the dynamic nature of Earth as a system. It includes discussion of fundamental geological concepts such as plate tectonics, the major rock types and the minerals that comprise them, volcanoes, earthquakes and Earth's interior, crustal deformation and mountain building, deep time, fossils and evolution, and the history of Earth. A focus on the relevance of geology to our everyday lives makes this course ideal for introductory-level and non-science majors and those students desiring a stronger background in the basic sciences.

CELEBRATING 90 YEARS

GEOL 310 Historical Geology 3 Units
Formerly: GEOL 3

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
This course covers the geological history of Earth as shown by the changing pattern of land an sea and by the succession of fauna and flora. Stratigraphy and other techniques for interpreting the sequence of past geological events are studied.

GEOL 311 Historical Geology Laboratory 1 Unit
Formerly: GEOL 4

Prerequisite: None
Corequisite: GEOL 310.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course includes laboratory studies in historical geology and the application of physical geology principles and paleontology to the reconstruction of the history of the Earth. Students will perform exercises in stratigraphy and paleontology as well as interpret geologic maps.

GEOL 345 Geology of California 3 Units
Formerly: GEOL 12

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
A survey of the physical, historical and economic aspects of the geology of California. Recommended for non-majors as well as majors in geology. Of particular value to engineering, education and economics majors.

GEOL 350 Introduction to Mineralogy 4 Units
Formerly: GEOL 6

Prerequisite: None
Acceptable for credit: UC/CSU
72 hours Lecture
The properties, relationships and origins of minerals, crystallography and determinative mineralogy; economic importance of minerals in California and on a world-wide basis.

GEOL 391 Field Studies in Geology 1-3 Units
Formerly: GEOL 24

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
Laboratory study of geologic principles, geologic processes and earth materials in the natural setting. Field trips will be scheduled to the desert, mountains, great valley, and coastal regions. This course may be repeated for credit for three units maximum.

GEOL 494 Topics in Geology .5-4 Units
Formerly: GEOL 22

Prerequisite: None
Acceptable for credit: CSU
9-72 hours Lecture
This course is designed to enable both science and non-science students to learn about recent developments in geology. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

Gerontology GERON

Associate in Science Degree

Career Certificate

Department of Family and Consumer Science

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

The Gerontology Program will prepare students to manage the health, psychological, and social needs of the elderly population. The need for specialization in gerontology is clearly shown in population trends and documented in literature citing the lack of adequately prepared geriatric caregivers. Students who are planning to continue specialization in gerontology by transferring to a four-year college should consult the Requirements for Transfer Institutions section of this catalog. Consultation with an SCC counselor is advised.

Career Opportunities: Career Opportunities may be found as Care/Case Aide Registry Coordinator, Volunteer Services, Elder Care Provider, Program Aide or Assistant, Geriatric Aide, Home Care Specialist, Home Health Aide, Intergenerational Care Provider, and Professional Caregiver.

Required Program	**Units**
PSYC 374, Psychology of Aging: Adult Development and Aging (3) or GERON 302, Psychology of Aging: Adult Development and Aging (3) or FCS 332, Psychology of Aging: Adult Development and Aging (3) or FCS 324, Human Development: A Life Span (3) or PSYC 370, Human Development: A Life Span (3)	3
GERON 300, Sociology of Aging (3) or SOC 335, Sociology of Aging (3) or FCS 330, Sociology of Aging (3)	3
PSYC 390, Psychology of Death and Dying	3
PSYC 392, Loss and Grief	2
GERON 330, Techniques for Communicating with and Validating Older Adults	3
GERON 334, Reminiscence Therapy	3
FCS 340, Nutrition	3
A minimum of 3 units from the following: GERON 498, Work Experience in Gerontology (1-4)	3
A minimum of 3 units from the following: GERON 360, Ethnic Diversity and Aging (0.5); GERON 364, Medical World of Elderly: Pharmacology (0.5); GERON 366, Coping with Death and Related Bereavement (0.5); GERON 372, Alzheimer's Workshop (0.5); GERON 376, Aging and Family Dynamics (0.5); GERON 378, Body Mechanics and Safety (0.5); GERON 380, Nutrition and Aging (0.5); GERON 389, Treatment of the Geriatric Patient (0.5); GERON 404, Sexuality and Aging (0.5); GERON 396, End-Stage Life Care (0.5); GERON 382, Stress Management: New Approaches (0.5); GERON 386, Strategies for Caregivers: Effectively Caring for the Elderly in the Community (0.5); GERON 368, Mental Health and Aging (0.5); GERON 370, Topics in Gerontology: Elder Abuse (0.5); GERON 388, Interpersonal Relationships (0.5); GERON 403, Legal Issues for the Elderly (0.5)	3
Total Units Required	**26**

CELEBRATING 90 YEARS

Suggested Electives
FCS 320, 326; PSYC 300, SOC 300, 301, 310, 341

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program with grades of "C" or better, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Gerontology (GERON)

GERON 300 Sociology of Aging 3 Units (Same as FCS 330 and SOC 335)

Formerly: GERON 22

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100 or ESLR 340 and ESLW 340 and ESL 114; and FCS 324; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Areas B2, E2
Acceptable for credit: UC (GERON 300 or 302, maximum one course)/CSU
54 hours Lecture
In this course students will examine the aging process with emphasis on social factors affecting and affected by an aging population. It includes an analysis of demographics, history of aging in America, social conditions, resources and support systems, employment, retirement, social class, and cultural differences. Students will be encouraged to reflect on their status in the sociology of aging process. (Credit awarded for FCS 330 or GERON 300 or SOC 335.)

GERON 302 Psychology of Aging: Adult Development and Aging (Same as FCS 332 and PSYC 374) 3 Units

Formerly: GERON 26

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100, or ESLR 340 and ESLW 340 and ESL 114; and FCS 324; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area E2
Acceptable for credit: UC (GERON 300 or 302, maximum one course)/CSU
54 hours Lecture
Students will explore the description and explanation of the evolution of adult behavior over the life span. It will also include the study of the nature and changes of capabilities, skills, feelings, emotions, and social behavior with age. (Credit for FCS 332 or PSYC 374 or GERON 302.)

GERON 330 Techniques for Communicating with and Validating Older Adults 3 Units

Formerly: GERON 41

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course introduces the basic theory, techniques, and experiences for communication, validation and stimulation with the elderly at different cognitive levels.

GERON 334 Reminiscence Therapy 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course introduces the basic theory and techniques of Reminiscence Therapy and provides experience in planning, facilitating, and evaluating reminiscence groups with the elderly in an institutional setting.

GERON 360 Ethnic Diversity and Aging .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course is an overview of ethnicity as a factor in the aging process. Emphasis will be placed on how values, beliefs, and culture must be considered in the design and delivery of service. This course is graded Credit/No Credit.

GERON 364 Medical World of Elderly: Pharmacology .5 unit

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours lecture
This course examines possible causes and effects of alcohol abuse and polypharmacy on the health and overall quality of life in older adults. This course is graded Credit/No Credit.

GERON 366 Coping with Death and Related Bereavement .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course is an exploration of our societal and personal views of death, dying, and bereavement with the focus on ways in which our Western society treats the subject of death, right-to-die issues, and the theoretical stages of death and bereavement. This course is graded Credit/No Credit.

GERON 368 Mental Health and Aging .5 Unit

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course is an examination of mental health as it is impacted by the aging process, focusing on correlates of mental health, incidence of mental illness, depression, dementia, substance abuse, intervention, and resources. This course is graded Credit/No Credit only.

GERON 370 Topics in Gerontology: Elder Abuse .5 Unit

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course is an overview of elder abuse, focusing on occurrence, prevention strategies, and resources. This course is graded Credit/No Credit only.

GERON 372 Alzheimer's Workshop .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course is an overview of current information on all aspects of dementia and caregiving issues, focusing on research, legal issues, grief, resources, medication, behavior management and activities. This course is graded Credit/No Credit.

GERON 376 Aging and Family Dynamics .5 unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours lecture
This course is an overview of how the aging process affects individuals, families, and relationships. The focus is on changing roles and relationship strategies for negotiating these transitions and helping families resolve aging issues. This course is graded Credit/No Credit.

GERON 378 Body Mechanics and Safety .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course is an overview of body mechanics emphasizing a problem-solving approach. Focus is on basic methods and techniques of positioning, transfer, and ambulation, as well as personal safety, adaptive exercise, and assistive devices. This course is graded Credit/No Credit.

GERON 380 Nutrition and Aging .5 unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course concentrates on the practical aspects of nutrition and aging. Information will be provided on choosing recipes that provide nutrient-dense meals in a cost-effective manner. In addition, the impact of nutrition on the aging process will be discussed. This course is graded Credit/No Credit.

GERON 382 Stress Management: New Approaches .5 unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course examines stress from a communication perspective. The concept of high-risk messages will be introduced focusing on how stress reactions affect behavior and morale in residential care facilities and other systems. Emphasis is on how a message is translated and how it affects stress, overload, and spill-over effects. Stress management skills will be demonstrated. This course is graded Credit/No Credit only.

GERON 386 Strategies for Caregivers: Effectively Caring for the Elderly in the Community .5 unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course covers effective strategies for providing effective care for the elderly, including how it is complicated by dementia, role reversal, and guilt. Common sense strategies will be explained for caregiving that not only meet the needs of the elderly but also lessen the caregiving burden. This course graded Credit/No Credit only.

GERON 388 Interpersonal Relationships .5 unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course covers listening, communication skills, understanding emotions, family involvement, and adaptive behavior in long-term care settings. Demonstrations with role play will provide practical experience to enhance understanding. This course graded Credit/No Credit only.

GERON 389 Treatment of the Geriatric Patient .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course explores the demographic, socioeconomic, and physiologic aspects of aging as they relate to the treatment of the elderly. Other issues will include instituionalized and home care, community resources, and health care systems. This course graded Credit/No Credit.

GERON 396 End-Stage Life Care .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course includes effective strategies for assisting the dying patient and his/her family. Topics include concepts of sub-acute care, physician-assisted suicide, euthanasia, and their effect on the elderly society. This course graded Credit/No Credit only.

GERON 403 Legal Issues for the Elderly .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course is designed to examine current legal issues specific to older adults. It includes assets management and a survey of legal tools. This course is graded Credit/No Credit.

GERON 404 Sexuality and Aging .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
Acceptable for credit: CSU
9 hours Lecture
This course explores the demographic, socioeconomic, and physiologic aspects of aging as they relate to the treatment of the elderly. Other issues will include instituionalized and home care, community resources, and health care systems. This course graded Credit/No Credit.

GERON 494 Topics in Gerontology .5-4 Units

Formerly: GERON 47

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Acceptable for credit: CSU
9-72 hours Lecture
Designed to examine current issues or specific topics relevant to the field of gerontology. The particular topics to be covered each semester will be determined by gerontology staff. This course graded Credit/No Credit. May be taken four times.

GERON 498 Work Experience in Gerontology 1-4 Units

Formerly: GERON 48

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture, 60 - 300 hours Laboratory
This course provides "hands-on" experience for students to explore their interests and capabilities in assessing and applying therapeutic interventions when working with the elderly. Students will be under the supervision of the instructor and a designated professional in the assigned facility.

Graphic Communication GCOM

Associate in Science Degree

Career Certificate

Certificate of Completion

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Graphic Communication, Degree and Career Certificate

Digital Illustration, Certificate of Completion

Graphic Design Production, Certificate of Completion

Image Editing, Certificate of Completion

Web Design Basics, Certificate of Completion

Page Layout, Certificate of Completion

Prepress, Certificate of Completion

Graphic Communication develops curriculum in conjunction with Northern California industry leaders. Our courses offer students both current technology and theory in electronic prepress, graphic design, digital illustration, image editing, web design, page layout, and computer animation.

The Graphic Communication Department partners with industry leaders to develop curriculum that blends solid theoretical training with the latest software versions. Faculty members ensure student understanding of typography, color theory, layout, composition, visual message-making, and principles of animation while preparing them for real-world employment. GC has been inspiring creative emergence and developing professional marketability for over three decades.

The program consists of three distinct areas:

- Electronic Prepress/Graphic Design
- Web Design
- Computer Animation

Courses within these areas focus on specific skills and technical competencies to promote success in the workplace and transfer to four-year colleges and art schools.

Electronic Prepress/Graphic Design

These courses focus on computer-related and design skills that are applicable to the print design industry. This area offers industry standard software classes as well as basic design theory. Courses will prepare students for transfer to a four-year college or employment opportunities within the print design industry. Employers include newspapers, book and magazine publishers, graphic design studios, prepress departments within commercial print shops, government agencies, and in-house design studios.

Web Design

Web design courses combine the latest computer technology and graphic design concepts/theory. The curriculum is under close advisement from industry contacts to offer students skills that are "hireable." Opportunities in this area might include transfer to a four-year college, employment with a Web design team, or self-employment as a Web designer.

Computer Animation

These courses are being developed with the help of industry partners who are leaders in computer animation in Northern California. Opportunities include transfer to a four-year college, transfer to private animation schools, employment in animation studios, special effects houses, the gaming industry, the motion picture industry, and independent filmmaking.

Recommended High School Preparation

Courses in art, computer skills, photography, journalism, and English.

Contact department faculty at 916-558-2280.

Graphic Communication

Associate in Science Degree
Career Certificate

Required Program	Units
A minimum of 21 units from the following:	21
GCOM 101, Introduction to Macintosh (1.5)	
GCOM 103, Introduction to Adobe Acrobat (1.5)	
GCOM 105, Photoshop Special Features (1.5)	
GCOM 104, Real World Scanning (1.5)	
GCOM 280, Experimental Offering in Graphic Communication, Design Related (.5-4)	
GCOM 282, Experimental Offering in Graphic Communication, Emerging Technologies (.5-4)	
GCOM 284, Experimental Offering in Graphic Communication, Image Editing Related (.5-4)	
GCOM 286, Experimental Offering in Graphic Communication, Multi-media Related (.5-4)	
GCOM 288, Experimental Offering in Graphic Communication, Page Layout Related (.5-4)	
GCOM 300, Prepress and the Printing Process (3)	
GCOM 310, Beginning Page Layout, Using Adobe PageMaker (3)	
GCOM 313, Beginning Page Layout, Using Adobe InDesign (3)	
GCOM 314, Advanced Page Layout Using Adobe InDesign (3)	
GCOM 316, Beginning Page Layout, Using Quark XPress (3)	
GCOM 317, Advanced Page Layout, Using Quark XPress (3)	
GCOM 319, Newspaper Design (3)	
GCOM 330, Beginning Photoshop (3)	
GCOM 331, Advanced Image Editing, Using Adobe Photoshop (3)	
GCOM 340, Beginning Adobe Illustrator (3)	
GCOM 341, Advanced Digital Illustration, Using Adobe Illustrator (3)	
GCOM 343, Graphic Design Production (3)	
GCOM 345, Advanced Graphic Design Production (3)	
GCOM 349, Portfolio (1.5)	
GCOM 360, Graphics for the Web (3)	
GCOM 361, Creative Web Page Design (3)	
GCOM 362, Intermediate Creative Web Page Design (Dreamweaver II) (3)	
GCOM 363, Advanced Creative Web Page Design (Macromedia Flash) (3)	
GCOM 383, Interactive and Motion Design Using Macromedia Flash (3)	
GCOM 400, Introduction to Computer Animation (3)	
GCOM 402, Beginning 3D Modeling and Rigging (3)	
GCOM 410, Advanced 3D Animation - Character Animation Production (3)	
GCOM 498, Work Experience in Graphic Communication (1-4)	
Total Units Required	**21**

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program with grades of "C" or better, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of 21 units in Graphic Communication courses with grades of "C" or better or equivalent.

Digital Illustration

Certificate of Completion, Level 1

Digital Illustration involves creating artwork (graphics), Web graphics, press-ready illustrations, and poster art. The Digital Illustration Certificate involves learning industry standard illustration software. The certificate should prepare students for an internship or entry-level position working in a graphic design related field.

Career Opportunities: Career Opportunities may be found in graphic design studios, professional printing facilities, newspapers, magazines, and Web design studios.

Required Courses	Units
GCOM 340, Beginning Adobe Illustrator	3
GCOM 341, Advanced Digital Illustration, Using Adobe Illustrator	3
Total Units Required	**6**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better or equivalent.

Graphic Design Production
Certificate of Completion, Level 3

Graphic Design Production involves the setting up and designing of text and graphics for print. The Graphic Design Production Certificate involves learning industry standard software, as well as design principles like color, type, and composition. This certificate should prepare students for an internship or entry-level position working in a graphic design related field.

Career Opportunities: Career Opportunities may be found in graphic design studios, newspapers, magazines, and professional printing facilities.

Required Courses	Units
GCOM 310, Beginning Page Layout, Using Adobe PageMaker (3)	
or GCOM 313, Beginning Page Layout, Using Adobe InDesign (3)	
or GCOM 314, Advanced Page Layout Using Adobe InDesign (3)	
or GCOM 316, Beginning Page Layout, Using Quark XPress (3)	
or GCOM 317, Advanced Page Layout, Using Quark XPress (3)	3
GCOM 330, Beginning Photoshop (3)	
or GCOM 331, Advanced Image Editing, Using Adobe Photoshop (3)	3
GCOM 340, Beginning Adobe Illustrator (3)	
or GCOM 341, Advanced Digital Illustration, Using Adobe Illustrator (3)	3
GCOM 345, Advanced Graphic Design Production	3
GCOM 349, Portfolio	1.5
Total Units Required	**13.5**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better or equivalent.

Image Editing
Certificate of Completion, Level 1

Image Editing involves creating artwork (graphics) used in print publications or Web sites. The Image Editing certificate involves learning industry standard image editing software, as well as design principles like color, type, and composition. The certificate should prepare students for an internship or entry-level position working in a graphic design or Web design area.

Career Opportunities: Career opportunies may be found in graphic design studios, Web design studios, newspapers, magazines, and professional printing facilities.

Required Courses	Units
GCOM 330, Beginning Photoshop	3
GCOM 331, Advanced Image Editing, Using Adobe Photoshop	3
GCOM 105, Photoshop Special Features (1.5)	
or CGOM 104, Real World Scanning (1.5)	1.5
Total Units Required	**7.5**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better or equivalent.

Web Design Basics
Certificate of Completion, Level 2

Web Design involves the visual design of Web graphics and the visual design of a Web site experience. The Web Design Certificate requires learning visual design principles for Web technology, industry standard software, and basic Web page construction and design. It also could include animation and interactivity on web sites with the GCOM 363 or GCOM 383 Option. This certificate should prepare students for an internship or entry-level position working in a Web design-related field.

Career Opportunities: Career Opportunities may be found in the Web design industry.

Required Courses	Units
GCOM 360, Graphics for the Web	3
GCOM 361, Creative Web Page Design	3
GCOM 362, Intermediate Creative Web Page Design (Dreamweaver II)	3
GCOM 363, Advanced Creative Web Page Design (Macromedia Flash) (3)	
or GCOM 383, Interactive and Motion Design Using Macromedia Flash (3)	3
Total Units Required	**12**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better or equivalent.

Page Layout
Certificate of Completion, Level 2

Page Layout involves the page design of text and graphics. The Page Layout Certificate involves learning industry standard page layout software, as well as design principles like color, type, and composition. The certificate should prepare students for an internship or entry-level position working in a graphic design field.

Career Opportunities: Career Opportunites may be found in graphic design studios, newspapers, magazines, and professional printing facilities.

Required Courses	Units
A minimum of 6 units from the following:	6
GCOM 310, Beginning Page Layout, Using Adobe PageMaker (3)	
GCOM 313, Beginning Page Layout, Using Adobe InDesign (3)	
GCOM 316, Beginning Page Layout, Using Quark XPress (3)	
A minimum of 3 units from the following:	3
GCOM 314, Advanced Page Layout Using Adobe InDesign (3)	
GCOM 317, Advanced Page Layout, Using Quark XPress (3)	
GCOM 319, Newspaper Design (3)	
Total Units Required	**9**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better or equivalent.

Prepress

Certificate of Completion, Level 2

Prepress work involves using page layout, image editing, and illustration software to create print publications and to pre-flight documents. The Pre Press Certificate involves learning industry standard software for the printing and graphics industries, as well as design principles like color, type, and composition. The certificate should prepare students for an internship or entry level position in printing or graphic design related fields, such as prepress departments in print shops, newspapers, magazines, and in-house graphic design departments.

Career Opportunities: Career Opportunities may be found in prepress departments in print shops, newspapers, magazines, and in-house graphic design departments.

Required Courses	**Units**
GCOM 310, Beginning Page Layout, Using Adobe PageMaker (3) or GCOM 313, Beginning Page Layout, Using Adobe InDesign (3) or GCOM 316, Beginning Page Layout, Using Quark XPress (3)	3
GCOM 330, Beginning Photoshop (3)	3
GCOM 340, Beginning Adobe Illustrator	3
Total Units Required	**9**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required program with grades of "C" or better or equivalent.

Graphic Communication (GCOM)

GCOM 101 Introduction to the Macintosh 1.5 Units

Formerly: GCOM 51

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
This course is designed to give students a basic understanding of the Macintosh platform. Instruction will include: setting up the Macintosh hardware-from box to operation; adding peripherals and setting proper SCSI numbers; installing the most current system software; general operating techniques which include system software tips and proper startup and shutdown procedures; and troubleshooting procedures.

GCOM 103 Introduction to Adobe Acrobat 1.5 Units

Formerly: GCOM 88

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
Students will learn to use the Adobe Acrobat collection to create, modify, and enhance PDF documents in Portable Document Format (PDF). Additionally, students will learn to create a PDF document from either an electronic or paper file. A variety of tools and features let you add interactive elements to your documents from custom hyperlinks and media clips to form fields and buttons. Students will also learn to use Acrobat to create a searchable electronic library of files. This course may be taken three times for credit.

GCOM 104 Real World Scanning 1.5 Units

Formerly: GCOM 68

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
Real World Scanning is designed to help individual students make better decisions when purchasing a scanner as well as helping those who own a scanner to be able to create better scans. Areas covered will include scanning color photos, black and white photos, line art, and the scanning of text through OCR (optical character recognition) software. Whether you are a first-time scanner user or a seasoned veteran, this course will help you produce quality scans for use on your inkjet printer or for sending to a commercial printer.

GCOM 105 Photoshop Special Features 1.5 Units

Prerequisite: GCOM 330 with a grade of "C" or better or equivalent experience.
18 hours Lecture; 27 hours Laboratory
Students will learn how to use Adobe Photoshop techniques in the process of creating artistic pieces and a final design project. Through lecture and hands-on exercises students will learn to create and edit digital image types for any digital, creative, or visual situation. Topics include the use of channels, layers, brushes, filters and adjustments. Emphasis is placed on gaining creative control over every step in the creative process as well as efficient practices in handling the program. The techniques covered in this course can be applied to various digital media output methods including print design, Web design, 3D animation, and digital video.

GCOM 280 Experimental Offering in Graphic Communication, Design Related .5-4 Units

Formerly: GCOM 85D

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs. This course may be taken three times for credit as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 282 Experimental Offering in Graphic Communication, Emerging Technologies .5-4 Units

Formerly: GCOM 85E

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs in the area of emerging technologies related to graphic communications (entirely new computer software reaching beyond the current trend of graphic software). This course may be taken three times for credit as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 284 Experimental Offering in Graphic Communication, Image Editing Related .5-4 Units

Formerly: GCOM 85I

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs in the area of image editing. This course may be taken three times for credit as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 286 Experimental Offering in Graphic Communication, Multi-Media Related .5-4 Units

Formerly: GCOM 85M

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs. This course may be taken three times as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 288 Experimental Offering in Graphic Communication, Page Layout Related .5-4 Units

Formerly: GCOM 85P

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs. This course may be taken three times as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 294 Topics in Graphic Communication .5-4 Units

Formerly: GCOM 85

Prerequisite: None
18 hours Lecture; 54 hours Laboratory
This is a specialized course developed in cooperation with industry to address emerging training needs. This course may be repeated no more than three times for credit provided there is no duplication of topics.

GCOM 300 Prepress and the Printing Process 3 Units

Formerly: GCOM 50

Prerequisite: GCOM 310 or 313 or 316 or 340 or equivalent with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers computer and hands-on experience in pre-press and pre-flight preparation, as well as printing a simple project. Through lecture, homework assignments, and tours, students learn to make appropriate decisions with software, output and estimating costs for the variety of printing opportunities available today. The first segment of this course will cover pre-press through using tools in graphic design software. The second segment of the class will involve actual printing. Projects may include preparation and printing of business cards, letterhead, envelopes, and notepads.

GCOM 310 Beginning Page Layout, Using Adobe PageMaker 3 Units

Formerly: GCOM 52

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course focuses on the basic elements of layout design using Adobe PageMaker. Students will learn to create single and multi-page publications using basic graphic design guidelines; work with text and drawing tools; place and integrate text and graphics, set up master pages and columns; change type and paragraph specifications; use the story editor, styles, text wrap and control palette. Students will have the opportunity to experiment with publication page layouts and produce camera-ready material including flyers, newsletters, brochures, and business packages. This course may be taken up to three times if the software version has changed.

GCOM 313 Beginning Page Layout, Using Adobe InDesign 3 Units

Formerly: GCOM 54

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course covers page layout design using an industry-standard application, Adobe InDesign. Topics include setting up and managing multipage documents for professional printing, controlling and creating graphics within the software, importing graphics from other software, and preparing files for printing purposes. Use of the Adobe InDesign tools, embedding fonts, importing Quark Xpress and PageMaker documents, color management systems, preparing files for the Web, and file conversion / cross platform font issues are included as well. This course may be taken three times for credit if the software version has changed.

GCOM 314 Advanced Page Layout Using Adobe InDesign 3 Units

Prerequisite: GCOM 313 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
Acceptable for credit: CSU
This is an in-depth course about page layout design, multipage production and electronic publishing, utilizing a page layout industry standard software- Adobe InDesign. Through lecture, demonstration, and hands-on methods, as well as class/instructor critiques, students will employ the graphic design process for page layout design from creative concept to printed page. Topics include multipage publications, using a grid, typography, composition and interfacing with professional printing services. This course may be taken three times for credit if the version of software being taught has changed.

GCOM 316 Beginning Page Layout, Using Quark XPress 3 Units

Formerly: GCOM 57

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to page layout, page composition, and electronic publishing utilizing a graphic design industry standard software, Quark XPress. Students will discover how to effectively use the software to design brochures, newsletters, catalogs, and a variety of other publishing materials that follow basic page layout and design principles. This course may be taken up to three times for credit if the version of software being taught has changed.

GCOM 317 Advanced Page Layout, Using Quark XPress 3 Units

Formerly: GCOM 58

Prerequisite: GCOM 316 with a grade of "C" or better or equivalent.
Advisory: GCOM 330 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an indepth course about page layout design, graphic design and production, and electronic publishing. Utilizing the graphic design industry standard software, Quark XPress, students will design and produce portfolio-quality projects. Through lecture, demonstration, and hands-on methods as well as class/instructor critiques, students will understand the graphic design process for page layout design from creative concept to printed page. Topics include multipage publications, packaging layout, advertising design, typography, working with client, and working with a service bureau and printer. This course may be taken up to three times if the version of software being taught has changed.

GCOM 319 Newspaper Design 3 Units

Formerly: GCOM 59

Prerequisite: GCOM 310 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course examines newspaper design. Students are responsible for the design and production of the award winning Sacramento City College school newspaper, using the fundamental design concepts and theory involving grid, page layout, typefaces, and visual communication. This course offers an opportunity to build a portfolio and to gain experience while working on a real-world project. This course may be taken three times for credit.

GCOM 330 Beginning Photoshop 3 Units

Formerly: GCOM 66

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
Discover the ultimate power of creating, manipulating, and enhancing images by using the professional graphic design and Web design imaging software of choice, Adobe Photoshop. This beginner's course covers how to effectively use this software for the graphic design industry, as well as how to plan and carry out a digital imaging project. This course may be taken twice for credit if the version of software being taught has changed.

GCOM 331 Advanced Image Editing, Using Adobe Photoshop 3 Units

Formerly: GCOM 67

Prerequisite: GCOM 330 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course centers on advanced image editing techniques using the latest version of Photoshop. In addition to learning advanced capabilities of Photoshop, students will learn how to alter existing images realistically, compose artwork in graphic situations, and creatively apply techniques to original artwork. Students will also learn how to work with service bureaus and commercial printers to produce quality out-put. This course may be taken three times for credit if the version of software being taught has changed.

GCOM 340 Beginning Adobe Illustrator 3 Units

Formerly: GCOM 75

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
When illustrating digitally for print or Web media, one of the skills artists and designers need to have is the ability to draw with vector digital tools. This beginner's course provides professional tips and techniques while introducing graphic design and Web design

students to the industry's leading vector-drawing program, Adobe Illustrator. Students will learn how digital illustrations are produced with a variety of lines and fills, gradients and blends, and special effects. This course gives students the foundation to create original graphics and illustrations digitally. The course may be taken up to three times for credit if the software version has changed.

GCOM 341 Advanced Digital Illustration, Using Adobe Illustrator 3 Units

Formerly: GCOM 76

Prerequisite: GCOM 340 with a grade of "C" or better or equivalent.
Advisory: ART 300 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course takes an in depth look at digital illustration, using Adobe Illustrator software. Work in this course focuses on using graphic design problem solving in conjunction with developing an individual art style. Topics include color, typography, composition, visual theme, drawing technique, using images for the Web, and understanding the offset printing process. Students complete the course with several professionally designed, original illustrations for their portfolios. This course may be taken three times for credit if the version of software being taught has changed.

GCOM 343 Graphic Design Production 3 Units

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This in-depth course studies the fundamentals of graphic design. Specific focus will be on gestalt principles of design; balance and visual hierarchy; integration of text and image on the two-dimensional page; and introduction to typographic exploration. This course may be taken up to three times, as the software version changes.

GCOM 345 Advanced Graphic Design Production 3 Units

Formerly: GCOM 79

Prerequisite: GCOM 330 with a grade of "C" or better or equivalent AND GCOM 340 with a grade of "C" or better or equivalent AND choose one page layout course: GCOM 310 or GCOM 313 or GCOM 316 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an in-depth graphic design course about page layout, graphic production, and electronic publishing. Students will utilize different industry standard software applications to complete projects resembling "real world" studio work. Students will understand the graphic design process from concept to printed page. Topics include logo design, working with a service bureau, file formats, importing from other applications, multi-page publication design, packaging design, and combining software packages. This course may be taken up to three times, as software versions change.

GCOM 349 Portfolio 1.5 Units

Formerly: GCOM 90

Prerequisite: None
Advisory: Students should have at least four pieces of artwork or design work from other classes to use in this class.
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This course is geared toward new or returning students who wish to present a portfolio of work in the Graphic Communication-related and creative industries for the purpose of job interviews or admission to a four-year art/design school. Through lecture, demonstration, and hands-on methods, students will gain understanding of the aesthetics, organization, and physical preparation in creating a portfolio of work. Topics include portfolio mediums, mounting and presentation, self-promotion resumes, pursuing a job or transfer school, interviewing for a creative position, and getting your art/design work noticed.

GCOM 360 Graphics for the Web 3 Units

Formerly: GCOM 81W

Prerequisite: GCOM 330 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is for those wishing to design professional quality Web graphics. The course takes an in-depth look at designing graphics for the Web. Using industry standard graphic software, students will create original graphics as well as manipulate found imagery. Through lecture, demonstration, hands-on methods, and class/instructor critiques, students will understand the process for designing graphics for Web use. Topics include developing graphic elements for a Web site using a visual theme, creating buttons and intuitive navigational elements, making background textures and images, understanding Web file formats, scanning, presenting to a client, and simple animation that enhances a Web site. This course may be taken twice for credit if the software version has changed.

GCOM 361 Creative Web Page Design 3 Units

Formerly: GCOM 87

Prerequisite: GCOM 330 or GCOM 340 or GCOM 360 or CISW 350 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This beginner's course uses Macromedia Dreamweaver as a tool for creating the look and feel of Web sites. With an in-depth look at graphic and visual design concepts, students will create a professional quality, fully functional Web site. The portfolio-worthy project will be catered to a specific audience and will feature both technical skill and visual design ability. This course may be taken three times if the software version has changed.

GCOM 362 Intermediate Creative Web Page Design (Dreamweaver II) 3 Units

Prerequisite: GCOM 361 with a grade of "C" or better or the equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course applies the basic and intermediate/advanced principles of graphic design to publishing on the World Wide Web. The course will use Macromedia Dreamweaver as a tool for students to practice and implement the design process for Web projects. Students will create a fully functional Web site using visual editor

technology, as well as good design decisions, intuitive navigation, and visual theme. This course may be taken three times if using a different version of the software.

GCOM 363 Advanced Creative Web Page Design (Macromedia Flash) 3 Units

Formerly: GCOM 89

Prerequisite: GCOM 361 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
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 creative process for Web design, working with a client, bandwidth restrictions, and optimal delivery will be covered. This course may be taken three times for credit if the version of software being taught has changed.

GCOM 370 Web Projects (Same as CISW 470) 3 Units

Prerequisite: Completion of one of the following: CISW 320, CISW 325, CISW 400, CISW 410, CISW 420, GCOM 361, GCOM 362, GCOM 363, or equivalent with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course focuses on Web project management on a real-world Website. Emphasis will be placed on the project development life cycle including design specification, research, production, modification, and presentation. Web projects utilized in the class will be multifaceted, approaching the complexity that individuals would be expected to encounter in the Web development industry. (Students may bring their own Web Projects to class.) This course may be taken two times with different projects.

GCOM 383 Interactive and Motion Design Using Macromedia Flash 3 Units

Prerequisite: GCOM 363 with a grade of "C" or better or equivalent experience.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is for students who have a solid understanding of animation and Flash basics and would like an introduction to more advanced techniques in motion design. Topics will include more advanced animation/motion design principles, complex animations and graphical effects, Flash Actions, nesting symbols, remote movie clips, and using multiple timelines. Skills learned in this course could be applied to designing Web sites, presentations, or any interactive medium. This course may be taken up to three times, as the software version changes.

GCOM 400 Introduction to Computer Animation 3 Units

Formerly: GCOM 91

Prerequisite: None
Advisory: GCOM 341 and ART 304 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course introduces students to the creation of believable animation using the personal computer. The principles of animation are emphasized through lecture and the use of 2D and 3D software tools. Students learn historical perspective, the animation production process, and industry trends. Students work on hands-on projects creating 2D and 3D animations. This course may be taken two times for credit on a different software version.

GCOM 402 Beginning 3D Modeling and Rigging 3 Units

Formerly: GCOM 93A

Prerequisite: None
Advisory: GCOM 341, GCOM 400 and ART 304 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course introduces the student to 3D graphics and 3D animation using industry standard 3D animation software. Through exercises and hands on projects, students explore concepts and principles in 3D graphics and character rigging. Topics include: 3D modeling, character rigging, shading, lighting, and rendering. This course may be taken two times for credit on a different software version.

GCOM 410 Advanced 3D Animation - Character Animation Production 3 Units

Formerly: GCOM 92A

Prerequisite: GCOM 402 with a grade of "C" or better
Advisory: GCOM 400, GCOM 341, ART 304, and TA 331 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course entails a hands-on study of the challenging subject of 3D character animation. Areas of focus include 3D character design, modeling, rigging, and character animation using industry standard software, as well as the synchronization of voice, sound effects, and music. Students will explore advanced techniques in designing 3D characters and animating them in producing short stories. The animation production process and principles of animation will be reinforced throughout this course. This course may be taken two times for credit on a different software version.

GCOM 498 Work Experience in Graphic Communication 1-4 Units

Formerly: GCOM 98

Prerequisite: None
Acceptable for credit: CSU
See Work Experience.

Health Education HEED

Division of Physical Education, Health, and Athletics

Gary Torgeson, Dean/Athletic Director

Hughes Stadium, Sections 1 and 3

916-558-2425

HEED 300 Health Science 3 Units

Formerly: HEED 1

Prerequisite: None
Advisory: Advisory: ENGWR 100 and ENGRD 310.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will include, but not be limited to the study of physical and psychological health, creating healthy and caring relationships, avoiding and overcoming harmful habits, building healthy lifestyles, preventing and fighting disease, and facing life's challenges. Specific topics may include the study of physical, mental and emotional health, managing stress, violence, sexuality, birth control, pregnancy, childbirth, sexually transmitted diseases including AIDS, drug, alcohol, and tobacco use and abuse, nutrition and fitness, prevention and fighting communicable disease, aging, environmental health and consumerism.

HEED 314 Community First Aid and Safety 2 Units

Formerly: HEED 12

Prerequisite: None
Advisory: ENGWR 100, ENGRD 310, and ESLW 320.
Acceptable for credit: UC (HEED 314 or 322, maximum one course)/CSU
36 hours Lecture
This course is the official American Red Cross Standard First Aid and Community Cardiopulmonary Resuscitation (CPR) course. American Red Cross Standard First Aid and Community CPR certificates will be issued upon completion of this course with a grade of "C" or better.

HEED 321 CPR: BLS for the Professional Rescuer 1 Unit

Prerequisite: None
General Education: AA/AS Area E2
Acceptable for credit: CSU
9 hours Lecture; 27 hours Laboratory
Cardio-Pulmonary Resuscitation(CPR): Basic Life Support (BLS) for the Professional Rescuer is designed to meet the special needs of the people who are expected to respond in emergency situations. It includes adult, child, and infant CPR as well as performing two-rescuer CPR and using rescue-breathing devices. It teaches the skills a professional rescuer needs to act as a crucial link in the emergency medical services (EMS) system. Students will need to purchase a pocket mask rescue-breathing device. Students who earn at least a "B" in the class and pay a $5.00 fee will be eligible to receive an American Red Cross certificate in CPR for the Professional Rescuer.

HEED 322 Advanced First Aid and Emergency Care 3 Units

Formerly: HEED 20

Prerequisite: None
Acceptable for credit: UC (HEED 314 or 322, maximum one course)/CSU
54 hours Lecture
The official American Red Cross Advanced First Aid and Emergency Care course, along with CPR. The American Red Cross Advanced First Aid and CPR certificates will be issued upon completion of the course with grade of "C" or better.

HEED 330 Health and Safety in Child Care Settings (Same as ECE 410) 1 Unit

Formerly: HEED 13

Prerequisite: None
Advisory: Eligibility for ENGRW 310 and ENGRD 110.
Acceptable for credit: CSU
18 hours Lecture
This course will discuss health and safety issues in child care centers and family day care homes. Topics include pediatric cardiopulmonary resuscitation, pediatric first aid, and preventative health practices such as control of infectious diseases, injury prevention, nutrition, sanitation, emergency preparedness and evacuation. This course meets requirements of mandated training for child care providers.

HEED 340 College Success For The Student Athlete 3 Units

Formerly: HEED 25

Prerequisite: None
General Education: AA/AS Area E2
Advisory: ENGRD 110 and ENGWR 100 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to assist student athletes in obtaining the skills and knowledge necessary to reach their educational objective. Topics to be covered include: eligibility and recruitment information as mandated by the Commission on Athletics and transfer requirements mandated by the National Collegiate Athletic Association. Other topics include: motivation, discipline, memory development, time management, career planning, study skills and techniques, nutrition, drug and alcohol abuse, and violence. Campus resources will be covered. It is highly recommended for student athletes.

History HIST

Associate in Arts Degree

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

The history major fosters an understanding of ourselves and our world through the study of the past-both remote and recent. The program develops critical thinking and a broad background in issues and ideas from our past. The major thus prepares students for transfer to B.A. programs in history. It also offers all students fundamental preparation for careers in business, government, teaching, and a number of professional fields (for example, paralegal or law careers).

Required Program	**Units**
Introduction to Early United States History:	
HIST 310, History of the United States (3)	3
or HIST 320, History of the United States: African-American Emphasis (3)	
or HIST 483, History of the United States - Honors (3)	
Introduction to Recent United States History:	
HIST 311, History of the United States (3)	3
or HIST 321, History of the United States: African-American Emphasis (3)	
or HIST 484, History of the United States - Honors (3)	
Western Civilization or World History:	
HIST 300, History of Western Civilization (3)	6
and HIST 302, History of Western Civilization (3)	
or HIST 307, History of World Civilizations to 1500 (3)	
and HIST 308, History of World Civilizations, 1500 to Present (3)	
Breadth Area:	
A minimum of 3 units from the following:	3
HIST 360, History of African Civilizations (3)	
HIST 364, Asian Civilization (3)	
HIST 365, Asian Civilization (3)	
HIST 370, History of the Americas through the 19th Century Wars of Independence (3)	
HIST 371, History of the Americas from the 19th Century Wars of Independence to the Present (3)	
HIST 373, History of Mexico (3)	
HIST 380, History of the Middle East (3)	
A minimum of 3 units from the following	3
One additional history course	
Total Units Required	**18**

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60 unit total.

Transfer Program
Transfer Program: Transfer students should consult the Requirements of Transfer Institutions in this catalog and the History or related major sections of the specific catalog for the institution to which they wish to transfer to determine admissions, general education, and major requirements. Consultation with an SCC counselor is advised.

CELEBRATING 90 YEARS

History (HIST)

HIST 300 History of Western Civilization 3 Units

Formerly: HIST 4

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of C or better or ESLW 320 and ESLR 320 with grades of C or better.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC/CSU
54 hours Lecture
This is a study of Western Civilization from pre-historic times to the Renaissance. The focus of the course will be on the history of Europe, including a general account of those political, economic, and social institutions as well as the cultural and intellectual forces that help explain our present day civilization. The course includes the general study of the nature of history, prehistorical culture, the Ancient Near East, Greece, Rome, the Middle Ages and the Renaissance.

HIST 302 History of Western Civilization 3 Units

Formerly: HIST 5

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of Western Civilization concentrating on the history of Europe. A general account of political, economic, and social institutions as well as the cultural and intellectual forces that help explain our present day civilization will be covered from the High Renaissance to the present.

HIST 305 Women in Western Civilization 3 Units

Formerly: HIST 6

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys women's contributions to the major ideas, institutions, and events of Western Civilization. Diversified roles of women are examined from antiquity to the present with emphasis on the interaction of the sexes. The effects on the society of the patriarchal structure of the family and consequently the pervasive impact on all institutions of western culture are closely examined.

HIST 307 History of World Civilizations to 1500 3 Units

Formerly: HIST 11

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys world history to 1500 with an emphasis on the dynamic interaction of cultures and peoples. The course will emphasize the role of social, political, economic, cultural and intellectual forces as they shape the major world civilizations. It will also focus on the legacy of these civilizations and their contributions to our present cultures.

HIST 308 History of World Civilizations, 1500 to Present 3 Units

Formerly: HIST 12

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of world history from 1500 to the present with an emphasis on the dynamic interaction of cultures and peoples. The focus is on the role played by social, political, economic, cultural, and intellectual forces in shaping the major world civilizations, the legacies of these civilizations, and the on-going tension between tradition and modernity.

HIST 309 World History in the Twentieth Century 3 Units

Formerly: HIST 26

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the major historical developments of the 20th Century world: nationalist and revolutionary movements; the development of modern capitalist, communist, and fascist systems; the dynamics of modern colonialism; postcolonial challenges; ethnic conflict, and the emergence of new global systems.

HIST 310 History of the United States 3 Units

Formerly: HIST 17

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 310 or 320 or 483, maximum one course; HIST 310, 311, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course covers the development of American Institutions and society through Reconstruction and partially fulfills American Institutions requirements. The course emphasizes the role played by political, economic, social, cultural, and intellectual forces on the culture and development of multiple ethnic groups in a comparative format.

HIST 311 History of the United States 3 Units

Formerly: HIST 18

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 311 or 321 or 484, maximum one course; HIST 310, 311, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course covers the development of American Institutions and society from Reconstruction to the present and partially fulfills American Institutions requirements. The course emphasizes the role played by political, economic, social, cultural, and intellectual forces on the culture and development of multiple ethnic groups in a comparative format.

HIST 314 Recent United States History 3 Units

Formerly: HIST 21

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Area B1
Acceptable for credit: UC (HIST 314 or 485, maximum one course)/CSU
54 hours Lecture
This course covers United States history from 1945 to the present, offering an in-depth study of post-World War II United States history. Emphasis will be placed on domestic policy, foreign policy, and social and political movements.

HIST 320 History of the United States: African-American Emphasis 3 Units

Formerly: HIST 14

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 310 or 320 or 483, maximum one course; HIST 310, 311, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
Covering the U.S. Constitution and founding of American governmental institutions, this course focuses on United States history from the establishment of the first New World colonies to the end of the Civil War. This course will pay particular attention to the ways in which black people have influenced the formation and development of this nation. This course will also examine the ways in which racial issues have shaped American society, culture, and politics.

HIST 321 History of the United States: African-American Emphasis 3 Units

Formerly: HIST 15

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 311 or 321 or 484, maximum one course; HIST 310, 311, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course focuses on United States history from 1865 to Present, including coverage of state and local government, with an emphasis on the role of African Americans. This course will pay close attention to the ways in which black people have shaped American society, culture, and politics.

HIST 344 Survey of California History: A Multicultural Perspective 3 Units

Formerly: HIST 28

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of the history of California with an emphasis on the evolution of the state as a multicultural society, beginning with Native Californian cultures and continuing to the present. Above all, the course evaluates the historical experiences and dynamic interaction of Mexican, Asian, African American, European American, and other cultural groups. Field trips to local sites of historical significance may be included.

HIST 360 History of African Civilizations 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introductory survey of African history from prehistory to the present. Major topics will include the rise of societies and states in Africa to 1500 CE, the Atlantic slave trade, European colonialism, and the emergence of nation states in modern Africa. The course examines the development of social, political, and economic institutions in Africa, the interactions of peoples and cultures, and the impact of the outside influences of Islam and the West on African history.

HIST 364 Asian Civilization 3 Units

Formerly: HIST 19

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a general survey of Asian civilizations with an emphasis on East Asia, from earliest known settlements through 1600. The course will highlight overviews of the various political, philosophical, cultural, and religious foundations in China, Korea, Japan, and India and examine the influence of these states on each other and the rest of Asia.

HIST 365 Asian Civilization 3 Units

Formerly: HIST 20

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an examination of the political, social, economic and cultural transformation of Asia since 1600 with an emphasis on East Asia. A focus will be placed on how these cultures responded to meet the challenges of western civilization.

HIST 370 History of the Americas through the 19th Century Wars of Independence 3 Units

Formerly: HIST 8

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a general historical survey of the Americas, North and South, from Precolumbian times through the Wars of Independence in the 19th century.

HIST 371 History of the Americas from the 19th Century Wars of Independence to the Present 3 Units

Formerly: HIST 9

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course offers a general survey of the Americas, North, South, and Central, from the 19th Century Wars of Independence to the present day. Special emphasis is placed on the comparison of the political and economic development of the United States and that of Latin America, as well as on Latin American-United States relations.

HIST 373 History of Mexico 3 Units

Formerly: HIST 10

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
A general history course of Mexico from earliest times to the present, this course provides a comprehensive study of Indian-Mexico, the Spanish conquest, Colonial New Spain, War of Independence, Age of Santa Ana, Reign of Diaz, Revolution of 1910, and reconstruction and contemporary Mexico.

HIST 380 History of the Middle East 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys the history of the Middle East (Southwest Asia) and North Africa with emphasis on the period from the 6th century CE (AD) to the present. The course focuses on the major social, economic, political and cultural transformations of the region, while taking into account both regional and global contexts of interaction and change in a comparative format. This course will provide students with a historical understanding of the impact of European colonialism, the discovery of petroleum and its consequences, the Palestinian-Israeli conflict, and the role played by the United States in the region.

HIST 400 Critical Thinking in History 3 Units

Formerly: HIST 32

Prerequisite: ENGWR 300 (College Composition) with a grade of "C" or better.
Advisory: Successful completion of at least one college history course.
General Education: AA/AS Areas B2, D2
Acceptable for credit: UC/CSU
54 hours Lecture
Students will apply critical thinking skills to historical problems and contemporary issues. Assigned writing projects will develop critical thinking skills and a working knowledge of the problems and opportunities facing the discipline of history in the world of postmodernism and the World Wide Web. Students will be required to successfully complete writing projects totaling at least 8,500 words, including an extended research project.

HIST 483 History of the United States - Honors 3 Units

Formerly: HIST 17H

Prerequisite: None
Enrollment Limitation: Eligibility for the Honors Program.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 310 or 320 or 483, maximum one course; HIST 310, 311, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course covers the development of American Institutions and society through Reconstruction and partially fulfills American Institutions requirements. The course emphasizes the role played by political, economic, social, cultural, and intellectual forces on the culture and development of multiple ethnic groups in a comparative format. The class is conducted in a seminar format and requires that the student engage in the reading of at least four other major books besides the required text. This honors section uses an intensive instructional methodology and is designed to challenge motivated students.

HIST 484 History of the United States - Honors 3 Units

Formerly: HIST 18H

Prerequisite: None
Enrollment Limitation: Eligibility for the Honors Program.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 311 or 321 or 484, maximum one course; HIST 310, 311, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
The course will focus on the development of American institutions from 1877 to the present. It is not recommended for students who have completed HIST 317. This honors section uses an intensive instructional methodology designed to challenge motivated students.

HIST 485 Recent United States History - Honors 3 Units

Formerly: HIST 21H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area B1
Acceptable for credit: UC (HIST 314 or 485, maximum one course)/CSU
54 hours Lecture
The course covers United States history from 1945 to the present, offering an in-depth study of post World War II U.S. History. Emphasis will be placed on domestic policy, foreign policy, and social and political movements. This honors section uses an intensive instructional methodology designed to challenge motivated students.

HIST 494 Topics in History .5-4 Units

Formerly: HIST 47

Prerequisite: None
General Education: AA/AS Area B2
Acceptable for credit: UC (pending UC approval after transfer)/CSU
9-54 hours lecture
Content will differ each time course is offered. Objective is to focus content on issues of national and international significance at the time of offering course. (Credit for HIST 494 or POLS 494, but not both.)

Honors Program

The Honors Program provides an enriched and unique educational experience with small classes in a seminar format. All courses are transferable and meet the general education/breadth requirements. Honors students have easy access to their instructors and are expected to utilize critical thinking skills throughout their course work. Eligibility: 3.0 GPA, eligibility for ENGWR 300, or upon application and letters of recommendation. Applications are available from the Associate Vice President, Instructional Services, Rodda North 257. Students completing 12 units of Honors courses with at "B" average are designated "Honors Scholars" at graduation and on their transcript.

Honors courses may be found in these subject areas:

Anthropology (ANTH 480, 481)

Chemistry (CHEM 484)

Economics (ECON 480, 482)

English - Literature (ENGLT 480, 481)

English - Writing (ENGWR 480)

Family and Consumer Science (FCS 480)

Geography (GEOG 480)

History (HIST 483, 484, 485)

Humanities (HUM 480, 483)

Mathematics (MATH 482)

Music (MUFHL 481, 482)

Philosophy (PHIL 480, 481, 482)

Political Science (POLS 480, 481)

Psychology (PSYC 480, 489)

Sociology (SOC 480)

Statistics (STAT 480)

Human Career Development HCD

Division of Counseling and Student Success

Delecia Nunnally, Dean

Rodda North 111

916-558-2289

HCD 80 Diagnostic/ Prescriptive Educational Assessment — 1 Unit

Formerly: HCD 201

Prerequisite: Intake Interview.
18 hours Lecture
Non-degree Applicable
This course is designed for students with normal or above intelligence who have a suspected learning disability. One-to-one assessment with a learning disabilities specialist will help evaluate learning strengths, areas of concern and learning styles with a goal toward establishing appropriate educational objectives and improved academic performance. Initial and follow-up group instruction strengthens the students understanding of test results and applications. The class may be repeated for credit as indicated in the Student's Individual Educational Plan.

HCD 83 Diagnostic Learning in English — 2 Units

Formerly: HCD 265

Prerequisite: None
18 hours Lecture; 54 hours Laboratory
Non-degree Applicable
This is an intensive individualized course offering learning strategies and instructional intervention for students who have difficulty learning English concepts despite traditional methods of instruction. This course is designed and monitored by the Learning dis(Abilities) Program instructor to develop the perceptual skills needed to improve reading and spelling. There is no limitation on the number of times this course may be repeated although it may be taken only once per semester.

HCD 85 Diagnostic Learning in Mathematics — 2 Units

Formerly: HCD 202

Prerequisite: None
18 hours Lecture; 54 hours Laboratory
Non-degree Applicable
This course is designed for students with disabilities who have difficulty learning mathematics through traditional modes of instruction. The emphasis is on assisting students with learning disabilities to prepare for college-level mathematics, but the course is open to all students who desire assistance. It offers individualized, self-paced instruction based upon students' current skills and educational goals. This course may be taken four times for credit.

HCD 99 Workplace Success: A Sociological Map to Succeeding in the Workplace (Same as SOC 99) 3 Units

Prerequisite: None
Non-degree Applicable
54 hours lecture
This course teaches students how to use the sociological perspective to reconceptualize the workplace and develop the interpersonal and organizational skills it requires. It is a non-transferable course designed for students in need of strategies to help them attain success in the workplace. (Credit may be awarded for either HCD 99 or SOC 99, but not both.)

HCD 116 Orientation to College .5-1 Unit
Formerly: HCD 52

Prerequisite: None
18 hours Lecture; 6 hours Laboratory
This course is designed to introduce the student to college programs and services and individual goal setting. Topics covered include skill and interest assessment, educational alternatives, college requirements, and procedures and institutional resources. This course is graded on a Credit/No Credit basis. A field trip may be required.

HCD 138 MESA/CCCP Orientation 1 Unit
Formerly: HCD 3

Prerequisite: None
18 hours Lecture; 6 hours Laboratory
This course is designed to assist MESA students to obtain the knowledge and skills necessary to reach their educational objectives in engineering, mathematics, and science related fields. Topics to be covered include: decision making on careers, education and personal enrichment, study skills and habits, time management, academic preparation, career ladders, building of self-confidence, educational and career strategies, compatibility with success in college. Field trips may be required.

HCD 300 Independent and Group Studies .5-4 Units
Formerly: HCD 1

Prerequisite: None
Acceptable for credit: CSU
9-72 hours Lecture
This course is a group activity in an area of human services and/or personal/educational development not available through existing courses. Such an activity shall be defined by regularly scheduled group experiences. Field trips may be required. Students may receive variable credit of .5-3 units per semester. A maximum of two activities will be allowed per semester. This course may be taken four times for credit for a maximum of nine (9) units.

HCD 302 The Puente Project 1 Unit

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course is designed to assist under-represented, motivated students by promoting transfer, student success, and community leadership, and is open to all students. Topics in this course include time management, graduation and transfer requirements, campus and community resources, creating a personal statement, and developing mentor relationships. Field trips and activities outside of class may be required. This course may be taken twice for credit for a maximum of two units.

HCD 310 College Success 3 Units
Formerly: HCD 2

Prerequisite: None
Advisory: Eligibility for ENGRD 110 and ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to assist students in obtaining the skills and knowledge necessary to reach their educational objectives. Topics to be covered include: motivation and discipline, memory development, time management, communication skills, career planning, study skills and techniques, question asking skills and personal issues that face many college students. Campus resources and information competency will also be covered. It is highly recommended for new and continuing students. The course may be offered for specific populations. An optional field trip may be included.

HCD 312 Guidance for U.S. Newcomers 3 Units
Formerly: HCD 55

Prerequisite: None
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture; 6 hours Laboratory
This course will introduce newcomers to cross cultural vocational issues and college expectations. Teaching materials are designed to transmit concepts on cultural adjustment, occupational information, work in America and expectations of work and education. Field trips may be required.

HCD 318 Transfer: Making It Happen 2 Units

Prerequisite: None
General Education: AA/AS Area E
Acceptable for credit: CSU
36 hours Lecture
This course will introduce students to strategies for successful transfer and eventual graduation from a four-year college or university. College research, general breadth/major requirements, self-analysis and differentiation between college selection and majors will be included.

HCD 320 Skills for Online Student Success **1 Unit**

Formerly: HCD 15

Prerequisite: None
Advisory: CISC 300.
Acceptable for credit: CSU
18 hours Lecture
This course is designed to familiarize students with the skills required to succeed in an online course. Students will explore how to use various Internet tools to effectively learn in an online environment. Topics include online course equipment needs; using a word processor to support class assignments; sending e-mail attachments; effective use of discussion groups, e-mail, and synchronous chat sessions; researching on the Internet; evaluating Internet sources; working collaboratively online.

HCD 330 Life and Career Planning **1 Unit**

Formerly: HCD 12

Prerequisite: None
Advisory: ENGWR 50 or ESLW 310 or ESLR 310.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
18 hours Lecture
This course is a holistic approach to life and career planning based on extensive measurement of interests, aptitudes, skills, values, personality, and life and personal circumstances. Personal and career goals will be formulated using career research and decision-making strategies.

HCD 344 Managing Your Internship **.5 Unit**

Formerly: HCD 9

Prerequisite: None
Corequisite: WEXP 298 or 498.
Acceptable for credit: CSU
9 hours Lecture
This course is designed to provide students with effective internship development skills that will assist them in obtaining and keeping an internship in the student's major area. Course content will include understanding the application of education to the workforce, the responsibilities of an internship, construction of an internship, evaluating an internship site, marketing skills, and maximizing the internship experience.

HCD 360 Academic Skills **1 Unit**

Formerly: HCD 10

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This modularized course is designed for students who want to improve their academic skills. Students will have an opportunity to assess their learning needs in order to develop and improve study techniques for textbook reading, notetaking, and test taking. In addition, students will learn how to apply time management, concentration, memory improvement and listening strategies.

Human Services HSER

Division of Learning Resources

Yvonne Maller, Dean

Learning Resource Center 236

916-558-2253

See Recommended Program for Instructional Assisting: Bi-Lingual/Bi-Cultural, General, Special Education; and Community Studies (Emphasis on Direct Services).

These two-year vocational programs are designed to give background training to students wishing to qualify for jobs in the human services professions (such as Education, Mental Health and Social Service agencies) at the subprofessional level as aides under the supervision of workers with professional degrees.

HSER 92 Prerequisite Skills Assistance .5-4 Units

Formerly: HSER 200

Prerequisite: None
27 hours Laboratory
Non-degree Applicable
Individualized instruction designed to help the student acquire or improve basic reading, writing and/or arithmetic skills. Course offering varies depending on individual student needs and abilities. Students may enroll in this open entry/open exit course up to the 12th week of the semester. This course is intended as a supplement to other courses and not as a substitute for any basic skills courses. Students earn .5 unit of credit for each 27 hours of work. This course may be repeated to a maximum of four (4) units. This course is graded credit/no-credit.

HSER 370 Introduction to Individual Peer Tutoring 1 Unit

Formerly: HSER 43A

Prerequisite: None
Advisory: Completion of the course or courses the student wishes to tutor with a grade of "B" or better.
Acceptable for credit: CSU
18 hours Lecture
This independent study course is designed to train students to become peer tutors. It introduces students to the role of a peer tutor and to the methods of effective tutoring.

CELEBRATING 90 YEARS

HSER 371 Tutor Training Practicum 1 Unit

Formerly: HSER 43B

Prerequisite: Completion with a grade of "B" or better and/or concurrent enrollment in HSER 370 or 373.
Acceptable for credit: CSU
54 hours Laboratory
This course provides students practice in individual and small group tutoring under an instructor's supervision. Students will utilize the tutoring skills they acquired in HSER 370 or 373 as they work in the tutoring labs on campus.

HSER 373 Introduction to Group Peer Tutoring 1 Unit

Formerly: HSER 38

Prerequisite: None
Advisory: Completion of the course or courses the student wishes to tutor with a grade of "B" or better.
Acceptable for credit: CSU
18 hours Lecture
This course is designed to familiarize the student with the role of the tutor and the methods of effective group tutoring. This course emphasizes collaborative, interactive approaches to learning in a group setting. This course is offered in coordination with the Beacon Peer-Assisted Learning Program.

HSER 375 Tutoring Elementary Students in Reading 3 Units

Formerly: HSER 45

Prerequisite: None
General Education: AA/AS Area E2.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers students an opportunity to learn and practice basic methods of tutoring elementary children to read. Students will meet on campus for the first part of the semester to be trained, and then will be assigned to a nearby elementary school where they will have in-depth practice tutoring elementary children who are reading below grade level. This course may be taken twice for credit. Prior to beginning work in the schools, students may be required to be fingerprinted and pass a TB test. This course may be offered in conjunction with a non-profit organization such as SMART Kids.

HSER 498 Work Experience in Human Services 1-4 Units

Formerly: HSER 48

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
18 hours lecture and 75 hours of related paid work experience for one unit of credit. Additional hours may be earned at the rate of 75 hours for paid work and 60 hours of volunteer work per unit up to a maximum of four (4) units per semester. Techniques of helping people through student presentation of case reports and speakers from a variety of agencies. See Work Experience.

HSER 1000 Supervised Tutoring 0 Units

Formerly: HSER 300

Prerequisite: None
Corequisite: Student must be enrolled in a college credit course and be referred by an instructor or counselor.
This course offers individualized tutoring designed to assist students to increase their success in college courses. Content will vary depending upon the adjunct course. Attention will be given to essential study skills and utilization of campus learning resources. Students may enroll for support of more than one college course per semester. This course may be repeated in subsequent semesters.

Humanities HUM

Associate in Arts Degree

Division of Humanities and Fine Arts
Chris Iwata, Dean
Auditorium 19a
916-558-2551

The Humanities program allows student to focus on classical, Western, and non-Western humanities. Courses examine the art, architecture, literature, music, philosophy, religion, and historical movements of world cultures.

Required Program	**Units**
HUM 300, Classical Humanities (3)	3
or HUM 310, Modern Humanities (3)	
A minimum of 15 units from the following:	15[1]
ARTH 300, Introduction to Art (3)	
ARTH 302, Art: Stone Age Through the Middle Ages (3)	
ARTH 304, Ancient Art (3)	
ARTH 306, Medieval Art (3)	
ARTH 310, Modern Art (3)	
ARTH 308, Renaissance Tradition in Art (3)	
ARTH 312, Women in Art (3)	
ARTH 324, Art of the Americas (3)	
ARTH 328, Survey of African Art (3)	
ARTH 330, Survey of African-American Art (3)	
ARTH 332, Asian Art (3)	
ENGLT 303, Introduction to the Short Story (3)	
ENGLT 310, English Literature (3)	
ENGLT 311, English Literature (3)	
ENGLT 320, American Literature (3)	
ENGLT 321, American Literature (3)	
ENGLT 331, African-American Literature (1730-1930) (3)	
ENGLT 332, African-American Literature (1930-Present) (3)	
ENGLT 345, Mythologies of the World (3)	
ENGLT 360, Women in Literature (3)	
ENGLT 370, Children and Literature (3)	
ENGLT 380, Introduction to Shakespeare (3)	
ENGLT 392, Science Fiction and Fantasy (3)	
ENGLT 401, Women in Film and Literature (3)	
ENGLT 494, Topics in Literature (3)	
Any foreign language course 411 or 412	
HIST 300, History of Western Civilization (3)	
HIST 302, History of Western Civilization (3)	
HIST 364, Asian Civilization (3)	
HIST 365, Asian Civilization (3)	
Any Humanities courses	
MUFHL 305, Music Appreciation (3)	
MUFHL 310, Survey of Music History and Literature (3)	
MUFHL 311, Survey of Music History and Literature (3)	
Any Philosophy courses	
COMM 305, Oral Interpretation (3)	
TA 300, Introduction to the Theatre (3)	
TA 302, History and Theory of the Theatre I (3)	
TA 303, History and Theory of the Theatre II (3)	
TA 312, History of Film (3)	
Any Honors version of the courses listed above.	
Total Units Required	**18**

[1]A student must take courses from at least five of the nine areas.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

HUM 300 Classical Humanities 3 Units

Formerly: HUM 1

Prerequisite: None
Advisory: ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC (HUM 300 or 480, maximum one course)/CSU
54 hours Lecture
This course is a survey of Western culture that focuses on human accomplishment expressed through painting, sculpture, architecture, music, literature, religion, and philosophy. Emphasis is on the civilizations of the ancient world, Egypt, Greece, Rome, and the Middle Ages. Optional field trips may be used.

CELEBRATING 90 YEARS

HUM 310 Modern Humanities 3 Units

Formerly: HUM 2

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course dealing with Western Civilization: literature, art, music, philosophy, and history. This course concentrates on the period from the Renaissance in Europe to the present day.

HUM 332 American Humanities 3 Units

Formerly: HUM 7

Prerequisite: None
General Education: AA/AS Area C, F
Acceptable for credit: UC (HUM 332 or 483, maximum one course)/CSU
54 hours Lecture
This course analyzes the literature, art, music, philosophy and history in America, both before and after the arrival of European explorers. The arts of African American, Native American, Asian American, Eurocentric, and Latino cultures are investigated in order to understand issues of race, ethnicity, class, and gender as they impact American life and culture.

HUM 350 Classical Mythology in Literature, Art and Music 3 Units

Formerly: HUM 5

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the influences of Greek and Roman mythology on literature, art, music, drama, and opera in the Western world.

HUM 352 Religious Themes in Western Art, Literature and Music 3 Units

Formerly: HUM 6

Prerequisite: None
Advisory: ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores major religious themes and their influence on cultural forms such as visual art, literature, philosophy, music, and film. The course emphasizes increasing students' appreciation of the works studied and encourages students to recognize the relationship between these works and the social context in which they were produced.

HUM 480 Classical Humanities - Honors 3 Units

Formerly: HUM 1H

Prerequisite: None
Enrollment Limitation: Eligibility for admission to the Honors Program.
General Education: AA/AS Area C
Acceptable for credit: UC (HUM 300 or 480, maximum one course)/CSU
54 hours Lecture
This course is a survey of Western culture that focuses on human accomplishment expressed through painting, sculpture, architecture, music, literature, religion, and philosophy. Emphasis is on the civilizations of the ancient world, Egypt, Greece, Rome, and the Middle Ages. This honors section leads the student through an intensive and scholarly approach to the subject matter in a seminar environment and uses an intensive instructional methodology designed to challenge motivated students.

HUM 483 American Humanities - Honors 3 Units

Formerly: HUM 7H

Prerequisite: None
Enrollment Limitation: Eligibility for admission to the Honors Program.
General Education: AA/AS Areas C, F
Acceptable for credit: UC (HUM 332 or 483, maximum one course)/CSU
54 hours Lecture
This course analyzes the literature, art, music, philosophy and history in America, both before and after the arrival of European explorers. The arts of African American, Native American, Asian American, Eurocentric, and Latino cultures are investigated in order to understand issues of race, ethnicity, class, and gender as they impact American life and culture. This honors section leads the student through an intensive and scholarly approach to the subject matter in a seminar environment and uses an intensive instructional methodology designed to challenge motivated students.

Independent Studies

Independent Studies in (Subject) **1-3 Units**

295

Not transferable

495

Acceptable for Credit:
CSU (elective units)
UC - only those marked with an asterisk (495) are UC transferable; UC (credit is contingent upon evaluation of course outline by each UC campus after transfer)*

This is an Independent Studies course that involves an individual student or small group of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement among the college, faculty member and student(s).

An application for Independent Studies must be filed before the end of the eighth week of the semester in which the study is to be completed. If the study is not completed by the end of the semester, a new application is not required if the unit(s) are to be granted in a subsequent semester.

ACCT 295, 495
ADAPT 495
ADMJ 495
AERO 295, 495
AH 295, 495
ANTH 495*
ARABIC 495
ART 495*
ARTH 495*
ASTR 495*
BIOL 295, 495*
BUS 295, 495
BUSTEC 295, 495
CANT 495*
CHEM 495*
CISC 295, 495
COMM 495*
COSM 295
DANCE 495
DAST 295
DHYG 295
ECE 295, 495
ECON 495*
EDT 495
ENGCW 495*
ENGED 495
ENGLT 495*
ENGR 495*
ENGRD 495
ENGWR 495*
ESL 495
ET 295, 495
EVT 295
FARSI 295, 495
FCS 295, 495
FITNS 495
FREN 495*
GCOM 295, 495
GEOG 495*
GEOL 495*
GERM 495*
GERON 495
HCD 495
HEED 495
HIST 495*
HSER 495
HUM 495*
IDES 495
JAPAN 495*
JOUR 495
KOREAN 495
LIBR 495
LIBT 495
MAND 495*
MATH 295, 495*
MET 295, 495
MGMT 295, 495
MKT 495
MTRCL 295
MUFHL 495
MUIVI 495
MUP 495
MUSM 495*
NURSE 495
OTA 295
PACT 495
PET 495*
PHIL 495
PHOTO 495
PHYS 495*
POLS 495*
PSYC 495*
PTA 295
RAILR 295
RE 495
RUSS 495*
SILA 495
SOCSC 495*
SOC 495*
SPAN 495*
SPORT 495
STAT 495*
SURVY 495
TA 495*
TECH 295, 495
TGLG 495
TMACT 495
VIET 495
VN 295

Industrial Technology

Associate in Arts Degree

Department of Mechanical-Electrical Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Program Information
This program is designed for those students who wish to pursue a single subject credential in Industrial Arts to teach junior and senior high school, grades 7 -12. (Refer to Teacher Education in this catalog under Pre-professional Majors.) It is also for those students who are pursuing a Bachelor's Degree in Industrial Technology, Manufacturing Systems Technology, Mechanical Engineering Technology, Graphic Communication, Construction Technology, Electronics Engineering Technology, and Computer Technology in the California State University system.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of a total of 24 units concentrated in one of the following technical areas: Engineering Design Technology, Electronics Technology, Mechanical-Electrical Technology, Photography, or Graphic Communication, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

CELEBRATING 90 YEARS

Instructional Assisting

Associate in Arts Degree

Career Certificate

Instructional Assisting-Bilingual/Bicultural Emphasis, Degree and Career Certificate

Instructional Assisting-General, Degree and Career Certificate

Instructional Assisting-Special Education, Degree and Career Certificate

Department of Family and Consumer Science

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Career Opportunities

To prepare students for work in K-12 and related educational institutions at the paraprofessional level under the supervision of those with professional degrees and/or to serve as the first level of training in a career ladder leading to professional degrees in education. It is anticipated that future developments in the field of education will contain many openings at the paraprofessional level.

In order to provide intermediate recognition of students' achievements, certificates of achievement are available in three areas: Instructional Assisting: General, Special Education, and Bilingual/Bicultural Emphasis. Certificates should assist students' job search. Students proposing entry into this program should consult with counselors and Early Childhood Education instructors before pursuing it.

Instructional Assisting-Bilingual/Bicultural Emphasis

Associate in Arts Degree
Career Certificate

Required Program	**Units**
FCS 312, Child Development (3) or ECE 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 400, Children with Exceptional Needs	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 430, Culture and Diversity in Early Childhood Education	3
A minimum of 12 units from the following: Foreign Language Courses 401, 402, 411, 412	12
Total Units Required	**27**

Suggested Electives
ECE 300, 320, 321, 323, 358, 360, 362, 415, 498; TA 404, ENGED 320, ENGLT 370

Associate of Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet the 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Instructional Assisting-General

Associate in Arts Degree
Career Certificate

Required Program	**Units**
FCS 312, Child Development (3) or ECE 312, Child Development (3)	3
ECE 314, The Child, the Family and the Community (3) or FCS 314, The Child, the Family and the Community (3) or SOC 312, The Child, the Family and the Community (3)	3
ECE 400, Children with Exceptional Needs	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 410, Health and Safety in Child Care Settings (1) or HEED 330, Health and Safety in Child Care Settings (1)	1
ECE 358, Activities for the School-Age Child (Six to Fourteen Years)	3
ECE 323, The Effective Parent-Teacher (3) or ECE 322, Promoting Children's Social Competence (3)	3
ECE 430, Culture and Diversity in Early Childhood Education	3

CELEBRATING 90 YEARS

ENGED 320, Service Learning: Tutoring Elementary Students in Reading 3
A minimum of 3 units from the following:..... 3
ECE 300, Introduction to Early Childhood Education (3)
ECE 320, Principles and Practices in Early Childhood Education (4)
ECE 321, Advanced Principles and Practices in Early Childhood Education (4)
ECE 356, Programs for the School-Age Child (3)
ECE 360, Art in Early Childhood (3)
ECE 362, Music for Children (3)
ECE 498, Work Experience in Early Childhood Education (1 - 4)
FCS 340, Nutrition (3)
TA 404, Techniques of Puppetry (3)
ENGLT 370, Children and Literature (3)
FCS 346, Children's Health, Safety and Nutrition (3)
or ECE 415, Children's Health, Safety and Nutrition (3)
SOC 335, Sociology of Aging (3)
or GERON 300, Sociology of Aging (3)
or FCS 330, Sociology of Aging (3)

Total Units Required **28**

Suggested Electives
ECE 300, 320, 321, 356, 362, 415, 498; FCS 330, 340, 346; GERON 300, SOC 335, TA 404, ENGED 320, ENGLT 370

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet the 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Instructional Assisting-Special Education

Associate in Arts Degree
Career Certificate

Required Program **Units**

FCS 312, Child Development (3)
or ECE 312, Child Development (3) 3
FCS 314, The Child, the Family and the Community (3)
or SOC 312, The Child, the Family and the Community (3)
or ECE 314, The Child, the Family and the Community (3)..... 3
ECE 320, Principles and Practices in Early Childhood Education .. 4
ECE 330, Infant Development 3
ECE 400, Children with Exceptional Needs..... 3
ECE 350, Introduction to Elementary Teaching with Field Experience..... 3
ECE 410, Health and Safety in Child Care Settings (1)
or HEED 330, Health and Safety in Child Care Settings (1)..... 1
ECE 322, Promoting Children's Social Competence (3)
or ECE 323, The Effective Parent-Teacher (3) 3
ECE 430, Culture and Diversity in Early Childhood Education..... 3
ENGED 320, Service Learning: Tutoring Elementary Students in Reading 3

Total Units Required **29**

Suggested Electives
ECE 300, 321, 356, 358, 360, 362, 415, 498; FCS 346, TA 404, ENGLT 370

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet the 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

International Studies

Associate in Arts Degree

Department of Social Science

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

The major consists of a core of 30-32 units, which satisfy university transfer requirements. Elective courses allow students to pursue interests in languages, culture, business, philosophy, history, fine arts, literature, and other studies.

Students who undertake the ISP major will prepare for transfer to universities that offer International Studies Majors or related fields; engage in course work that will broaden their perspective and skills in the field of international relations; have access to individual counseling for program planning and career development through a mentoring program with the Program Director; and be afforded the opportunity to develop their foreign language proficiency.

Career Opportunities

The International Studies degree is designed to facilitate students' successful transfer to B.A. programs and, in so doing, prepare them for advanced study in a variety of graduate programs. Careers can be found in Foreign Service, Governmental Relations, Public Affairs, International Trade, Civil Service, Lobbyist, Lawyer, Fiscal Analyst, Teacher, Non-Governmental Organization Staff, Language Specialist, International Advocate, International Consultant.

Recommended High School Preparation

Standard college preparatory program.

Four Year Transfer Information

UC/CSU systems require standard/basic preparatory course work prior to transfer. The ISP core courses (30 units) are designed to meet articulation and transferability to International Studies, International Relations, and International Business major requirements.

Required Program	**Units**
ANTH 310, Cultural Anthropology	3
COMM 325, Intercultural Communication	3
ECON 302, Principles of Macroeconomics or ECON 480, Principles of Macroeconomics-Honors	3
Foreign Language (Two Semesters)	4, 4
GEOG 320, World Regional Geography	3
HIST 308, World History from 1500 to Present	3
HIST 311, History of the United States	3
POLS 310, Introduction to International Relations (3) or POLS 480, Introduction to International Relations - Honors (3)	3
SOCSC 493, Topics in International Studies	5-4
Total Units Required	**29.5-33**

Suggested Electives

ARTH 320, ECON 304, ENGLT 480, 481; FCS 342, HCD 310, HIST 307, MUFHL 331, 332; PHIL 317, 352; SOCSC 352

Associate in Arts Degree (A.A.)

The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Journalism JOUR

Associate in Arts Degree

Publications Specialist, Career Certificate

Division of Language and Literature

Albert Garcia, Dean

Rodda South 226

916-558-2325

The Journalism Department produces The Express, a weekly newspaper (which regularly wins regional, state, and national awards for excellence). The newspaper is produced by reporters, editors, photographers and designers enrolled in JOUR 402, a three-unit laboratory course. The paper is distributed free on Thursdays in stands around campus.

Career Opportunities

This program gives students the opportunity to prepare for entry-level positions as writers, reporters, photographers, and designers for small newspapers, newsletters, or magazines. It also prepares them for work as newsletter or in-house publication writers, editors, and designers; copyeditors, technical writers, or editors; page designers; or other positions that include writing, editing, photography, and/or page layout and design.

Required Program for the Degree	**Units**
JOUR 300, Newswriting and Reporting	3
JOUR 402, College Newspaper Production	3
PHOTO 301, Beginning Photography	3
JOUR 498, Work Experience in Journalism	1 - 4
A minimum of 6 units from the following:	6
JOUR 320, Race and Gender in the Media (3)	
JOUR 340, Writing for Publication (3) or ENGWR 330, Writing for Publication (3)	
JOUR 340, Writing for Publication (3) or ENGWR 330, Writing for Publication (3)	
JOUR 340.1, Writing for Publication: Writing and Editing Concentration (1.5) or ENGWR 330.1, Writing for Publication: Writing and Editing Concentration (1.5)	
ENGWR 330.2, Writing for Publication: Marketing Concentration (1.5) or JOUR 340.2, Writing for Publication: Marketing Concentration (1.5)	
COMM 351, Mass Media and Society (3) or JOUR 310, Mass Media and Society (3) or ENGWR 384, Mass Media and Society (3)	
JOUR 405, Publications Production Skills Lab (0.5 - 3)	
JOUR 404, Editing and Production (3)	
GCOM 310, Beginning Page Layout, Using Adobe Pagemaker (3) or GCOM 313, Beginning Page Layout, Using Adobe InDesign (3) or GCOM 316, Beginning Page Layout, Using Quark XPress (3)	3
GCOM 314, Advanced Page Layout Using Adobe InDesign (3) or GCOM 317, Advanced Page Layout, Using Quark XPress (3)	3
A minimum of 4 units from the following:	4
CISA 305, Beginning Word Processing (2)	
CISA 306, Intermediate Word Processing (2)	
GCOM 101, Introduction to the Macintosh (1.5)	
GCOM 300, Prepress and the Printing Process (3)	
GCOM 330, Beginning Photoshop (3)	
PHOTO 322, Color Slide Photography (3)	
PHOTO 350, Photojournalism (3)	
ENGWR 300, College Composition (3)	
Total Units Required	**26-29**

CELEBRATING 90 YEARS

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Publications Specialist
Career Certificate

Required Program for the Certificate	**Units**
JOUR 300, Newswriting and Reporting	3
JOUR 402, College Newspaper Production	3
PHOTO 301, Beginning Photography	3
JOUR 498, Work Experience in Journalism	1-4
A minimum of 6 units from the following:	6
JOUR 320, Race and Gender in the Media (3)	
JOUR 340, Writing for Publication (3) or ENGWR 330, Writing for Publication (3)	
JOUR 340, Writing for Publication (3) or ENGWR 330, Writing for Publication (3)	
JOUR 340.1, Writing for Publication: Writing and Editing Concentration (1.5) or ENGWR 330.1, Writing for Publication: Writing and Editing Concentration (1.5)	
ENGWR 330.2, Writing for Publication: Marketing Concentration (1.5) or JOUR 340.2, Writing for Publication: Marketing Concentration (1.5)	
COMM 351, Mass Media and Society (3) or JOUR 310, Mass Media and Society (3) or ENGWR 384, Mass Media and Society (3)	
JOUR 405, Publications Production Skills Lab (0.5 - 3)	
JOUR 404, Editing and Production (3)	
GCOM 310, Beginning Page Layout, Using Adobe Pagemaker (3) or GCOM 313, Beginning Page Layout, Using Adobe InDesign (3) or GCOM 316, Beginning Page Layout, Using Quark XPress (3)	3
GCOM 314, Advanced Page Layout Using Adobe InDesign (3) or GCOM 317, Advanced Page Layout, Using Quark XPress (3)	3
A minimum of 4 units from the following:	4
CISA 305, Beginning Word Processing (2)	
CISA 306, Intermediate Word Processing (2)	
GCOM 101, Introduction to the Macintosh (1.5)	
GCOM 300, Prepress and the Printing Process (3)	
GCOM 330, Beginning Photoshop (3)	
PHOTO 322, Color Slide Photography (3)	
PHOTO 350, Photojournalism (3)	
ENGWR 300, College Composition (3)	
Total Units Required	**26-29**

A Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Journalism (JOUR)

JOUR 300 Newswriting and Reporting 3 Units
Formerly: JOUR 20A

Prerequisite: None
Advisory: ENGWR 100 with a "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This is a beginning course in newswriting and reporting. It provides instruction and practice in news reporting and fundamentals of news writing, including analyses of news stories and different types of stories in newspapers and magazines. The course concentrates on the lead and simple story types, organization and structure of news stories, and the language and style of journalism.

JOUR 302 Style for Media Writers 1 Unit

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course provides a review of English grammar for writers who seek careers in the mass media. Students will review basic grammar, spelling, punctuation, and Associated Press style, focusing on their use in newspaper and magazine articles.

JOUR 310 Mass Media and Society (Same as COMM 351 and ENGWR 384) 3 Units
Formerly: JOUR 19

Prerequisite: None
Advisory: ENGWR 100 with a "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course exploring aspects of communication and the impact of mass media on the individual and society. The survey includes basic communication models, books, magazines, newspapers, recordings, movies, radio, television, advertising, public relations, the Internet, theories of communication, relationships between mass media and business and government, processes and effects from a social science perspective.

JOUR 320 Race and Gender in the Media 3 Units
Formerly: JOUR 12

Prerequisite: None
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This multi-media course is an overview of print and broadcast journalism in the U.S. from World War I to the present. Using readings from selected texts, old newsreels, clips from movies, radio and television broadcasts, as well as period literature, students will analyze and debate the changes in journalism with particular focus on social class, gender, and ethnicity. Critical thinking will be emphasized in this course.

JOUR 340 Writing for Publication 3 Units
(Same as ENGWR 330)
Formerly: JOUR 14A

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
54 hours Lecture
This is an introductory course in writing nonfiction for publication. Emphasis will be on developing a saleable magazine article; finding ideas; analyzing magazines; writing a query letter; researching and interviewing; organizing, writing, and illustrating an article.

JOUR 340.1 Writing for Publication: 1.5 Units
Writing and Editing Concentration
(Same as ENGWR 330.1)
Formerly: JOUR 14C

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in writing and editing non-fiction articles for publication. The course will emphasize audience analysis, researching facts, conducting interviews, organizing articles, determining focus, preparing drafts, editing and rewriting. Students will have the opportunity to write a variety of types of articles, and will be encouraged to prepare these for sale. Particular concentration will be on improving writing style, learning new styles and forms, looking for weaknesses in writing, developing an eye for areas that could be stronger, and learning how to rewrite. Students will learn copyediting and proofreading, and will get ample practice to make them more confident about editing their work.

JOUR 340.2 Writing for Publication: 1.5 Units
Marketing Concentration
(Same as ENGWR 330.2)
Formerly: JOUR 14D

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in developing salable magazine articles. The course will emphasize analyzing markets, writing query letters, focusing ideas, approaching editors, preparing articles for publication, working with editors on editing or changing articles, using information in a number of articles, and becoming familiar with a wide range of publications.

JOUR 350 Writing for Broadcasting 3 Units
Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
54 hours Lecture
This course covers the theory and technique of writing for the broadcast media. It includes reporting for radio and television news, writing and storyboarding commercials and public service programming, and an introduction to production techniques. The course is recommended for students who plan to work in broadcasting, instructional media, and related fields.

JOUR 402 College Newspaper Production 3 Units
Formerly: JOUR 30

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
18 hours Lecture; 108 hours Laboratory
This is a course in which students produce the college newspaper 12 times a semester. The course is open to students who show ability in news writing, advertising, graphics, art work, photography, or editing. This course may be taken four times for credit.

JOUR 404 Editing and Production 3 Units
Formerly: JOUR 33

Prerequisite: Eligibility for ENGWR 300.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course emphasizes editing and designing newspapers, magazines, and other publications. Topics include news and feature writing, copyediting, headline writing, page make-up and design, and production methods. Editorial writing, press ethics, and press law are also discussed.

JOUR 405 Publications Production .5-3 Units
Skills Lab
Formerly: JOUR 47

Prerequisite: None
Corequisite: JOUR 402 or 404
Acceptable for credit: CSU
27-162 hours Laboratory
This lab course helps students improve their writing, editing, and computer skills as an addition to their enrollment in editing and production and/or college newspaper production. Students may enroll three times for a maximum of 6 units.

JOUR 498 Work Experience in 1-4 Units
Journalism

Prerequisite: None
Advisory: ENGWR 100 with a "C" or better.
18 hours Lecture, 0-162 hours Laboratory
This is a supervised internship in reporting, editing, or photographing, for the print or electronic media or for online publications. This course may be repeated for credit as long as there is new or expanded learning on the job. Students may enroll in the course four times for a maximum of 16 units.

Liberal Studies

Department of English
Division of Language and Literature
Albert Garcia, Dean
Rodda South 226
916-558-2325

Required Program

A minimum of 18 units from the following: This degree is comprised of eighteen (18) transferable units total.

Nine (9) units must be taken from one of the following four areas: 1) English (ENGCW, ENGED, ENGLT, ENGRD, ENGWR); 2) English as a Second Language (ESL, ESLG, ESLR, ESLW); 3) Journalism; or 4) Foreign Languages (including Sign Language).

Additionally, one three-unit course must be taken from EACH of these three (3) areas: 1) Communication (including Theatre Arts); 2) Humanities; and 3) Philosophy.

Total Units Required	**18**

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

CELEBRATING 90 YEARS

Liberal Studies for Elementary Teachers

Associate in Arts Degree

Department of Family and Consumer Science

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

This major is designed for students interested in teaching Kindergarten through 8th grade. Courses included in this major transfer into the Blended Elementary Teacher Education Program at California State University, Sacramento. Students who complete this major will be eligible to apply for the CSUS program to complete a bachelor degree and the requirements for a Multiple Subject Teacher Credential.

Note: Students completing the required program and other CSUS requirements may apply for a special admit to CSUS. Grade point average must be 2.67 in transferable baccalaureate courses.

The Writing Proficiency Exam should be taken at CSUS the last semester before transfer.

Students must meet the Reading Competency requirement through either assessment, a class, or a college-level reading examination.

The Intermediate Algebra Diagnostic exam should be taken at CSUS the last semester before transfer.

It is recommended that the CBEST be taken anytime after taking ENGWR 300, ENGWR 302, and MATH 310.

Other CSUS requirements: 0-8 Units

SOC 321, Race, Ethnicity, and Inequality in the United States
or ENGLT 334, Asian-American Literature
or COMM 325, Intercultural Communication
or SOCSC 300, Introduction to Ethnic Studies

Foreign Language: Students must complete the second semester of a foreign language (or satisfy CSUS foreign language graduation requirement.)

Other Associate in Arts Degree Requirements:
Physical Education - any activity course.

Required Program	**Units**
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ENGWR, 300 College Composition or ENGWR 480, Honors College Composition	3
ENGWR 302, Advanced Composition and Critical Thinking	3
ENGED 305, Structure of English	3
ENGED 320, Service Learning: Tutoring Elementary Students in Reading	3
ECON 302, Principles of Macroeconomics	3
HIST 307, History of World Civilizations to 1500	3
HIST 308, History of World Civilizations, 1500 to Present	3
HIST 310, History of the United States) or HIST, 483 History of the United States - Honors	3
MATH 310, Mathematical Discovery	3
POLS 301, Introduction to Government: United States	3
COMM 361, The Communication Experience	3
GEOL 305, Earth Science	3
GEOL 306, Earth Science Laboratory	1
BIOL 308, Contemporary Biology	3
BIOL 309, Contemporary Biology Laboratory	1
ART 430, Art and Children	3
FCS 312, Child Development or ECE 312, Child Development	3
SOC 321, Race, Ethnicity and Inequality in the United States (3) or ENGLT 334, Asian-American Literature (3) or COMM 325, Intercultural Communication (3) or SOCSC 300, Introduction to Ethnic Studies (3)	3
Total Units Required	**53**

Students must meet the Reading Competency requirement through either assessment, a class, or a college-level reading examination.

Suggested Electives
CISC 300, COMM 331, ECE 360, 430; ENGLT 334, 370; HIST 311, 320, 321; MUFHL 320, SILA 334, SOC 321, SOCSC 320, 325, 330, 332, 335, 336

Students should consult a counselor for other associate degree graduation requirements.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Library LIBR

Division of Learning Resources

Yvonne Maller, Dean

Learning Resource Center 236

916-558-2253

The Sacramento City College Library credit courses are designed to equip students with vital research skills, enabling their success in college classes and on the job. Students will gain "research survival skills" to cope with the information rich environment in which they live and work. In particular, these classes teach students how to find and evaluate information from print, the Internet, and other online resources.

SCC Librarians have created handouts to assist students with research and offer non-credit sessions demonstrating the use of library resources and the Internet. The library web site (http://www.scc.losrios.edu/~library) links to a wide variety of sources provided for SCC students and staff to satisfy a range of research and information needs. Librarians are also available to guide students through the research process at their own pace and according to their own needs whenever the library is open. Please drop by the reference desk on the second floor of the Learning Resource Center for assistance or more information.

LIBR 305 Legal Information Resources .5 Unit

Prerequisite: None
Advisory: Basic familiarity with computers is recommended for this course. The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better.
Acceptable for credit: CSU
9 hours Lecture
This course will explore both print and electronic legal information resources. Students will gain a general understanding of the legal system in the United States and the associated legal resources. They will learn how to analyze topics, define information needs, and utilize appropriate legal resources. It is designed for people working in libraries with legal resources or individuals interested in the legal field. This course may be taken twice for credit based on significant changes in online and print resources.

LIBR 306 Genealogy Research .5 Unit

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
9 hours Lecture
This course will introduce the basics of the genealogical research process including various strategies for obtaining and sharing information about your family background. It will explore many of the print and online resources available for genealogical research and will train students to analyze and evaluate genealogical resources. It is designed for people who are interested in learning genealogy, but who have no previous training or experience with genealogical research. This course may be taken twice for credit based on significant changes in online and print resources.

CELEBRATING 90 YEARS

LIBR 307 Medical Information Resources .5 Unit

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
9 hours lecture
This hands-on course will explore print and electronic sources of medical information. It is designed for people working in libraries with medical resources or individuals interested in the medical field. This course may be taken twice for credit based on significant changes in online and print resources.

LIBR 309 Consumer Business Reference .5 Unit

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
9 hours Lecture
This course explores basic resources that today's business consumers can utilize to fulfill their business information needs. Topics include sources for investment decisions, small business and franchise information, career resources and consumer research. The class uses a hands-on problem solving approach that emphasizes Internet and other electronic sources. This course may be taken twice for credit based on significant changes in online and print resources.

LIBR 311 Online Searching .5 Unit

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
9 hours Lecture
This course will help students develop an understanding of search strategies and online databases and catalogs using resources such as LOIS, EUREKA, Infotrac, ProQuest, and the Internet. It is designed for students who wish to become comfortable utilizing a variety of informational resources for research and to improve their ability to find and evaluate information in an online environment. This course may be taken twice for credit based on significant changes in online resources.

LIBR 318 Library Research and Information Literacy 1 Unit

Formerly: LIBR 15
Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
18 hours Lecture
This course will help students acquire the information competency skills necessary to conduct academic or personal research. It provides a step-by-step guide to the research process that is applicable to term papers, course work, and life-long learning. It emphasizes developing effective search strategies, selecting information tools, locating and retrieving information sources, analyzing and critically evaluating information, organizing and using information. This course may be taken twice for credit based on significant changes in online and print resources.

LIBR 320 Internet Research Skills 1 Unit

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
18 hours Lecture
This course will acquaint students with the history, structure, and tools of the Internet as used in research for academic and personal use. Students will learn how to use a variety of Internet resources and evaluate research quality information. Topics include e-mail, mailing lists, and search tools. This course may be taken twice for credit based on significant changes in the Internet.

LIBR 325 Introduction to Internet and Searching Strategies (Same as LIBT 325) 3 Units

Prerequisite: None
Advisory: The completion of ENGWR 100 or ESLR 320 and ESLW 320 with grades of "C" or better. Basic familiarity with computers is recommended for this course.
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course is an introductory survey to the content, use, and the evaluation of electronic information sources. Emphasis is placed on the effective use of the Internet as a research tool. This course covers Internet resources, online databases, email, newsgroups, listservs, blogs, and the invisible web. Database search strategies and techniques are covered. Historical and social issues surrounding the Internet are also discussed.

Library and Information Technology LIBT

Associate in Science Degree

Career Certificate

Division of Learning Resources

Yvonne Maller, Dean

Learning Resource Center 236

916-558-2253

Career Opportunities

The Library and Information Technology program is designed to assist students in the development of a wide range of technical skills in both library and media services that can lead to or enhance employment in the library field as a paraprofessional. Additionally, the curriculum is a valuable introduction to the field for students who plan to go into graduate studies to become librarians.

Almost every community in the nation has a library. In the greater Sacramento area alone, there are almost 200 libraries of various kinds employing professional librarians and library clerks and technicians. Jobs are available in public, school, business, and special libraries as well as in media centers.

Required Program	**Units**
LIBT 300, Introduction to the Library	3
LIBT 303, Library Reference Services	3
LIBT 325, Introduction to Internet and Searching Strategies	3
LIBT 330, Library Technical Processes	3
LIBT 331, Library Cataloging Procedures	3
LIBT 333, Library Media/Materials and Equipment	3
A minimum of 3 units from the following:	3
LIBT 498, Work Experience in Library and Information Technology (1-4)	
Total Units Required	**21**

Suggested Electives

BUSTEC 300, CISA 305, CISC 310; ENGLT 370, LIBR 305, 307, 309, 311, 318, 320; LIBT 340, 341, 499

Associate in Science Degree (A.S.)

The Associate in Science degree may be obtained by completion of all courses in the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate

The Career Certificate may be obtained by completion of all courses in the required program with a minimum grade of "C" plus approval of the Library and Information Technology Department.

CELEBRATING 90 YEARS

Library and Information Technology (LIBT)

LIBT 300 Introduction to the Library 3 Units

Formerly: LIBT 51

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This course is designed for students wishing to develop proficiency in the use of the library resources and for persons interested in paraprofessional library employment. The course covers the development, history and types of libraries and information providers; an overview of library services; instruction and practice in the use of library classification systems, library public catalogs and indices; and a presentation of employment opportunities. Three field trips or alternative assignments will be required.

LIBT 303 Library Reference Services 3 Units

Formerly: LIBT 61

Prerequisite: LIBT 300 with a grade of "C" or better.
Advisory: ENGWR 100, ESLR 320, or ESLW 320; Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This course acquaints students with library reference services including the different aspects of interacting with library patrons in a public environment. Students will also learn to select and successfully utilize the appropriate print and electronic reference source to be able to answer questions and find information for library patrons. These sources include general and specialized encyclopedias, yearbooks, dictionaries, handbooks and other subject specific tools. Field trips or alternative assignments will be required.

LIBT 325 Introduction to Internet and Searching Strategies (Same as LIBR 325) 3 Units

Formerly: LIBT 30

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This course is an introductory survey to the content, use, and the evaluation of electronic information sources. Emphasis is placed on the effective use of the Internet as a research tool. This course covers Internet resources, online databases, email, newsgroups, listservs, blogs, and the invisible web. Database search strategies and techniques are covered. Historical and social issues surrounding the Internet are also discussed.

LIBT 330 Library Technical Processes 3 Units

Formerly: LIBT 62

Prerequisite: LIBT 300 with a grade of "C" or better.
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This course will introduce the student to the work in a library Technical Services department. A primary focus will be duties and responsibilities of the library paraprofessional in regard to acquisitions processes (selection, verification, ordering and receiving). Also included is an overview of other Technical Services responsibilities, such as cataloging and catalog maintenance. Field trips or alternative assignments will be required.

LIBT 331 Library Cataloging Procedures 3 Units

Formerly: LIBT 71

Prerequisite: LIBT 300 and LIBT 330 with grades of "C" or better.
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This course will introduce the student to the rules and practices of cataloging. The course includes the study of both descriptive and subject cataloging, and classification systems. The course will also cover the formats required for both computerized and traditional catalog records. Field trips or alternative assignments will be required.

LIBT 333 Library/Media Materials and Equipment 3 Units

Formerly: LIBT 91

Prerequisite: LIBT 300 with a grade of "C" or better.
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This is a survey course in the understanding, use, and care of electronic media materials and equipment used in libraries. The course includes the utilization of the Internet, CD-ROM databases, video and related technology. Field trips or alternative assignments will be required.

LIBT 340 The School Library Media Center 3 Units

Formerly: LIBT 94

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This is a course on the School Library Media Center designed to provide a broad overview of its philosophy, history, function, and relationship to elementary and secondary schools. The course will cover the acquisition of materials, use of computers and automation, staffing, organization, and the relationship between the library program and the school curriculum. Field trips or alternative assignments will be required.

LIBT 341 Library Services for Children 3 Units

Formerly: LIBT 92

Prerequisite: None
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
54 hours Lecture
This course will introduce students to children's library services. The course will cover the historical developments of children's literature, sociological and psychological implications, selection and evaluation of children's library materials, storytelling, and children's program preparation. Field trips or alternative assignments will be required.

LIBT 494 Topics in Library and Information Technology .5-4 Units

Formerly: LIBT 97

Prerequisite: None
Acceptable for credit: CSU
9-54 hours Lecture
This course is designed to examine current issues or specific topics relevant to the field of Library and Information Technology. The topics to be covered each semester will be determined by the Library and Information Technology faculty.

LIBT 498 Work Experience in Library and Information Technology 1-4 Units

Formerly: LIBT 98

Prerequisite: LIT 300, 303, and 330 with grades of "C" or better.
Advisory: The completion of ENGWR 100, or ESLR 320 and ESLW 320 with a grade of "C" or better. Basic familiarity with computers is recommended for this course.
Acceptable for credit: CSU
18 hours Lecture; 60-75 hours Laboratory
This is a structured on-the-job training experience in several Sacramento area libraries and media centers under the supervision of professional librarians and media specialists. Each student is required to work in a minimum of two libraries. If the student is already working in a library, the current job may be counted as one of the libraries. Credit hours may be earned for three or four units, 60 hours of unpaid work per unit or 75 hours of paid work per unit. In addition, each student will be required to keep a job journal, write a career essay, and prepare two periodical readings (one subject oriented and the other career related). There will also be a midterm and a final examination. Field trips or alternative assignments will be required.

Mathematics MATH

Associate in Science Degree

Division of Mathematics/Statistics & Engineering

Anne E. Licciardi, Interim Dean

South Gym 220

916-558-2202

This program gives students the opportunity to complete the lower-division coursework in preparation for transfer to a four-year program in mathematics.

Career Opportunities

Mathematicians work as statisticians, analysts, computer programmers, actuaries, researchers, planners and educators.

This major is designed to meet some of the lower-division requirements for a major in Mathematics.

Required Program	**Units**
A minimum of 21 units from the following:	
MATH 400, Calculus I	5
MATH 401, Calculus II	5
MATH 402, Calculus III	5
MATH 420, Differential Equations	4
MATH 410, Introduction to Linear Algebra	3
STAT 300, Introduction to Probability and Statistics	4
Total Units Required	**21**

Note: Students planning to transfer to four-year institutions are advised to meet with a counselor for general education requirements.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of all courses in the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

NOTE: The University of California has a credit restriction on certain combinations of mathematics courses. See counselor for detailed information on the current UC Articulation Agreement.

MATH 27 Self-Paced Basic Skills Mathematics .5-2 Units

Formerly: MATH 200

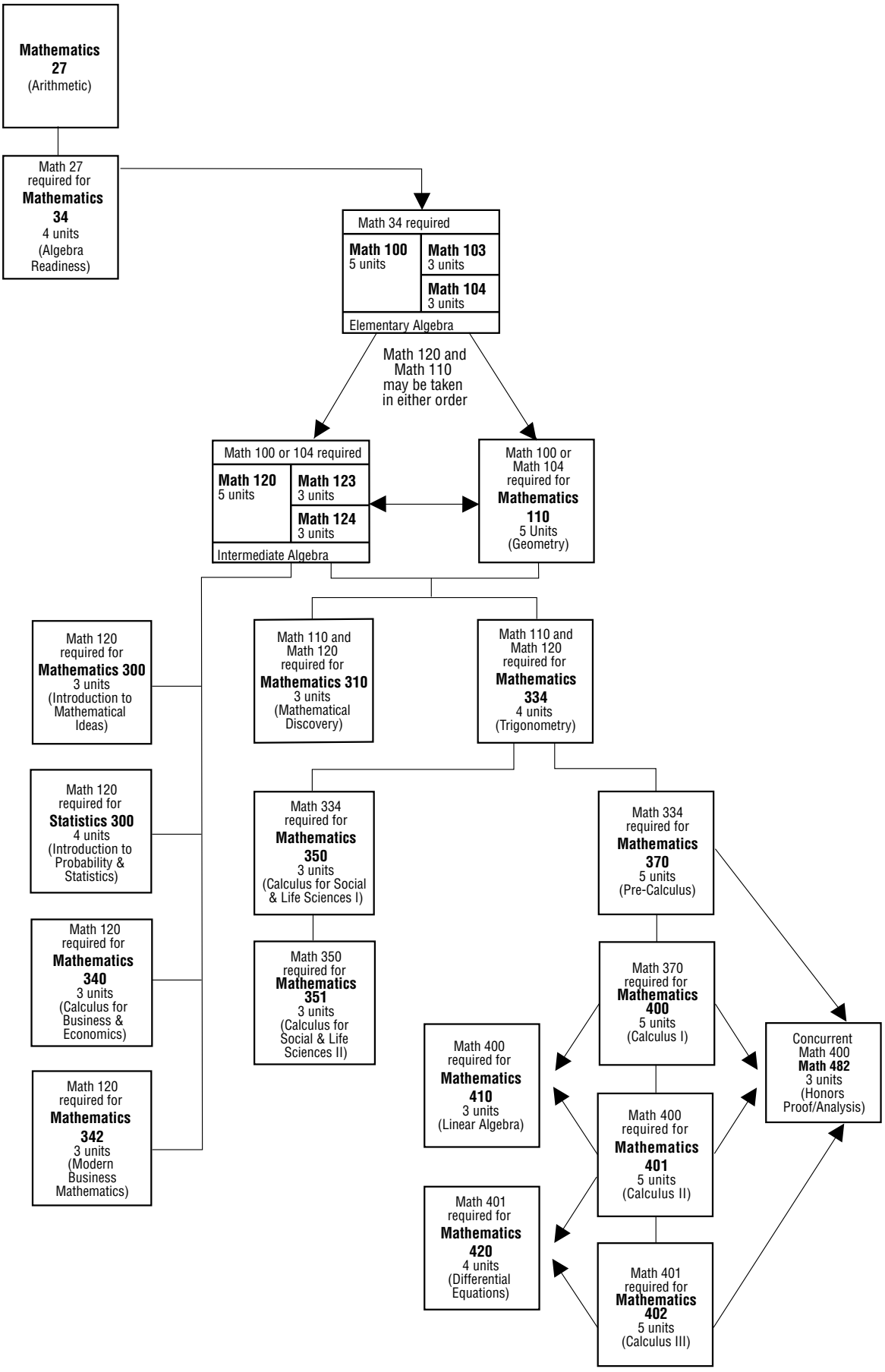
Prerequisite: None
0-24 hours Lecture, 0-108 hours Laboratory
Non-degree Applicable
This is a self-paced course in basic mathematics skills including the basic operations of addition, subtraction, multiplication, and division applied to the whole numbers, fractions, and decimals. This course is graded Credit/No Credit and does not fulfill the learning skills requirement for graduation. This is an open-entry/open-exit course with admission as late as the 12th week. This course may be taken up to four times for a maximum of two units.

MATH 34 Pre-Algebra 4 Units

Formerly: MATH 220

Prerequisite: Successful completion of MATH 27 or eligibility as determined by the assessment process.
72 hours Lecture
Non-degree Applicable
The emphasis in this course will be on skills necessary for success in elementary algebra. Course content will include review of fundamentals of arithmetic including whole numbers, common fractions, decimal fractions, and percentages. Other topics include order of operations, signed numbers, complex fractions, exponents, and scientific notation. There will be an introduction to the algebra of polynomials as time permits.

Math Sequence



MATH 80 Mathematics Study Skills 1 Unit

Prerequisite: None
18 hours Lecture
Non-degree Applicable
This course will help students increase their motivation and confidence and maximize their abilities in any mathematics course. Students will consider their current levels of math and test anxieties and make progress in lowering them to a productive level. Students will gain strategies to overcome barriers to mathematical success. Specific concepts will be designed for the current level of each student. Students may take this course along with another Mathematics or Statistics course, or may wish to take the course as preparation before enrolling in a Mathematics or Statistics course. This class is graded as Credit/No Credit.

MATH 100 Elementary Algebra 5 Units

Formerly: MATH 51

Prerequisite: MATH 34 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
90 hours Lecture
This course includes the fundamental concepts and operations of algebra with problem solving skills emphasized throughout. Topics include: properties of real numbers, linear equations and inequalities, integer exponents, polynomials, factoring polynomials, rational expressions and equations, radical expressions and equations, rational exponents, systems of linear equations and inequalities, the rectangular coordinate system, graphs and equations of lines, and solving quadratic equations.

MATH 103 Elementary Algebra, Part I 3 Units

Formerly: MATH 51A

Prerequisite: MATH 34 with a grade of "C" or better; or placement through the assessment process.
54 hours Lecture
This course will cover the first half of the traditional MATH 100 course including a brief review of signed numbers, algebraic expressions, linear equations and inequalities, systems of equalities and inequalities, graphing, and applications. This format of the course offers the students the opportunity to learn the skills of algebra and problem solving techniques at a slower pace than MATH 100.

MATH 104 Elementary Algebra, Part II 3 Units

Formerly: MATH 51B

Prerequisite: MATH 103 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
54 hours Lecture
This course introduces the second half of the traditional MATH 100 course to students wishing to study the topics in a longer time frame. The course content includes factoring polynomials, rational expressions, radicals and quadratic equations, and continued development in solving word problems.

MATH 110 Elementary Geometry 5 Units

Formerly: MATH 52

Prerequisite: MATH 100 (or MATH 104) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
90 hours Lecture
This course introduces Euclidean Geometry. Topics include axioms and postulates, deductive and inductive reasoning, proof, triangles, quadrilaterals, congruence, similarity, constructions, the Pythagorean Theorem, right triangle trigonometry, circles, analytic geometry and elementary solid geometry.

MATH 120 Intermediate Algebra 5 Units

Formerly: MATH 53

Prerequisite: MATH 100 or 104 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
90 hours Lecture
This course reviews and extends the concepts of elementary algebra, with problem solving skills emphasized throughout. Topics that are reviewed and extended include: linear and quadratic equations, factoring polynomials, rational expressions, exponents, radicals, equations of lines, and systems of equations. New topics include: graphs and their translations and reflections, functions, exponential and logarithmic functions, graphs of quadratic and polynomial functions, nonlinear systems of equations, polynomial, rational and absolute value inequalities, and an introduction to conic sections.

MATH 123 Intermediate Algebra, Part I 3 Units

Prerequisite: MATH 100 with a grade of "C" or better, MATH 104 with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
54 hours Lecture
This course reviews and extends the concepts of elementary algebra with problem solving skills emphasized throughout. Topics include linear equations and inequalities, factoring of polynomials, rational expressions, exponents, radicals, equations of lines, functions and absolute value equations and inequalities, and complex numbers.

MATH 124 Intermediate Algebra, Part II 3 Units

Prerequisite: MATH 123 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
54 hours Lecture
This course reviews and extends the concepts of elementary algebra and intermediate algebra part I with problem solving skills emphasized throughout. Topics include quadratic expressions, equations, inequalities and graphs, conic sections, rational function graphs, systems of equations, matrices, determinants, exponential and logarithmic functions, sequences and series.

MATH 170 Algebra Review for Calculus 2 Units

Formerly: MATH 55

Prerequisite: None
General Education: AA/AS Area D2 and mathematics competency.
36 hours Lecture
This course is a review of the algebraic skills necessary for successes in Calculus. Topics include real numbers, linear equations and inequalities, properties of lines, polynomials and factoring, rational expressions, exponents, quadratic equations, and functions. This is a Credit/No Credit class.

MATH 300 Introduction to Mathematical Ideas 3 Units

Formerly: MATH 1

Prerequisite: MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is intended to help the general student relate to the spirit of mathematics through a study of some fundamental ideas of mathematics. Several specific topics will be covered, to be chosen from: numeration systems, logic, sets, number theory, algebraic modeling, geometry, combinatorics, probability, statistics, consumer mathematics, graph theory, voting and apportionment, matrices and perhaps others. This course is not recommended for students entering elementary school teaching or for business administration majors.

MATH 310 Mathematical Discovery 3 Units

Formerly: MATH 2

Prerequisite: 1) MATH 120 or MATH 124 with a grade of "C" or better or eligibility as determined by the SCC assessment process; AND 2) MATH 110 or a college Geometry course or two semesters of high school Geometry with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to introduce students to the spirit of mathematics by involving them in aspects of mathematical processes of exploration, conjecture, and proof. Students will examine mathematical patterns and relations, formulate conjectures, and prove their conjectures. Areas of mathematics from which content may be derived include number theory, statistics, probability, geometry, and sequences and series. This course is recommended for students interested in a career in education.

MATH 315 Exploratory Field Experience in Mathematics 3 Units

Prerequisite: MATH 120 with a grade of "C" or better.
Enrollment Limitation: Current TB clearance is required prior to work in schools. Fingerprinting may also be required.
Acceptable for credit: CSU
36 hours Lecture, 54 hours Laboratory
This course is an education-based field experience in mathematics allowing students to explore teaching as a career choice. Students are assigned to area schools to observe and/or assist in mathematics classrooms. Students have the opportunity to learn and practice essential skills to assist younger students with their progress through the mathematics sequence and to learn about social, cultural, and educational issues related to mathematics and the school environment. Weekly seminars allow students to share experiences and compare observations. This course is recommended for those who may wish to pursue a single-subject credential in mathematics.

MATH 334 Trigonometry 4 Units

Formerly: MATH 15

Prerequisite: 1) MATH 120 or MATH 124 with a grade of "C" or better or eligibility as determined by the SCC assessment process; AND 2) MATH 110 or a college Geometry course or two semesters of high school Geometry with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: CSU
72 hours Lecture
This course focuses on the fundamental concepts of trigonometry and its applications. Topics include: functions of angles, circular functions, radian measure, polar coordinates, trigonometric identities and equations, graphing, inverse trigonometric functions, solutions of triangles, and vectors. Other topics may be included at the discretion of the instructor.

MATH 340 Calculus for Business and Economics 3 Units

Formerly: MATH 43

Prerequisite: Completion of MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 340 or 350, maximum one course)/CSU
54 hours Lecture
The content of this course includes review of the logarithmic and exponential functions, intuitive introduction to limits, development of the derivative, definite integral and partial derivates. Application of these concepts to economics and business will be emphasized.

MATH 342 Modern Business Mathematics 3 Units

Formerly: MATH 44

Prerequisite: MATH 120 (or MATH 124) with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: CSU
54 hours Lecture
This is a course designed around applications of mathematics in economic and business contexts. Specific topics will include functions and related business formulas, tables and graphs, finance (interest and exponential models in economics), rates of changes including applications and optimization, and linear programming.

MATH 350 Calculus for the Life and Social Sciences I 3 Units

Formerly: MATH 16A

Prerequisite: MATH 334 (or MATH 335 at CRC) with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 340 or 350, maximum one course; MATH 350 and 351 or 400 and 401 and 402, maximum one series)/CSU
54 hours Lecture
This course is an introduction to calculus. Topics include functions, trigonometric functions, limits, analytic geometry, and differential calculus with applications to business, social and biological sciences. This course is intended for students majoring in social and biological sciences.

MATH 351 Calculus for the Life and Social Sciences II 3 Units

Formerly: MATH 16B

Prerequisite: Completion of MATH 350 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
54 hours Lecture
This course is a continuation of Mathematics 350. Topics include: definite and indefinite integrals, power series, analytic geometry, multivariate calculus, and differential equations, with applications to business, social and biological sciences.

MATH 370 Pre-Calculus Mathematics 5 Units

Formerly: MATH 29

Prerequisite: MATH 334 (or MATH 335 at CRC) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (maximum four units)/CSU
90 hours Lecture
This course is designed to prepare students for MATH 400, 401, and 402. Course content includes a brief review followed by an in-depth extension of the properties of polynomial, rational, exponential, logarithmic and trigonometric functions. Additional topics include systems of linear and non-linear equations and inequalities, conic sections, sequences and series, analytic geometry, vectors, polar and parametric equations. Graphing calculators may be required for this class.

MATH 400 Calculus I 5 Units

Formerly: MATH 9A

Prerequisite: MATH 370 with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
90 hours Lecture
This course explores the basic concepts of analytic geometry, limits, including indeterminate forms, derivatives and integrals. The topics covered will include graphs, derivatives, and integrals of algebraic, trigonometric, exponential, logarithmic and hyperbolic functions. Many applications will be covered, including those involving rectilinear motion, differentials, related rates, graphing and optimization.

MATH 401 Calculus II 5 Units

Formerly: MATH 9B

Prerequisite: MATH 400 with a grade of "C" or better or equivalent.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
90 hours Lecture
This course is a continuation of Math 400. Topics covered will include techniques of integration, numerical integration, improper integrals, infinite series, parametric equations, polar coordinates, and conic sections. Many applications will be covered including those involving areas between plane regions, volumes of revolution, work, moments and centers of mass, average value, arc length, and surface area.

MATH 402 Calculus III 5 Units

Formerly: MATH 9C

Prerequisite: MATH 401 with a grade of "C" or better or equivalent course with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
90 hours Lecture
This course extends the concepts of limits, derivatives and integrals to vector-valued functions and functions of more than one variable. The topics covered will include three-dimensional analytic geometry and vectors, partial derivatives, multiple integrals, line integrals, surface integrals, and the theorems of Green, Gauss (Divergence) and Stokes. Many applications of the calculus will be included.

MATH 410 Introduction to Linear Algebra 3 Units

Formerly: MATH 35

Prerequisite: MATH 400 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces linear algebra. Topics include matrices, determinants, systems of equations, vector spaces, linear transformations, eigenvectors and applications. The course is intended for majors in mathematics, engineering, science, and related fields.

MATH 420 Differential Equations 4 Units

Formerly: MATH 11

Prerequisite: MATH 401 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
72 hours Lecture
This course will cover the theory and applications of the solutions of ordinary differential equations and systems of ordinary differential equations. Students will be introduced to various topics useful in the solution of these differential equations including power series, Laplace transforms, matrices, eigenvalues and eigenvectors and numerical methods.

MATH 482 Honors Introduction to Proof and Analysis 3 Units

Prerequisite: MATH 400 with a grade of "C" or better or concurrent enrollment in MATH 400, eligibility for admission to the Honors Program.
General Education: AA/AS Area D2 and mathematics competency
Acceptable for credit: UC/CSU
54 hours Lecture
This course is intended to give the student an introduction to the theoretical foundations of calculus. Methods of proof will be discussed, especially as they relate to the theorems and techniques of calculus. This honors course uses an emphasis on mathematical proofs to challenge motivated students.

MATH 494 Topics in Mathematics .5-5 Units

Formerly: Math 22

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
9-90 hours Lecture
This course is designed to enable both mathematics and non-mathematics students to learn about current and emerging topics in mathematics. Selected topics will not include those that are part of current course offerings. This course may be repeated for credit, provided there is no duplication of topics.

Mechanical-Electrical Technology
M E T

Associate in Science Degree

Career Certificate

Mechanical-Electrical Technology, Degree and Career Certificate

Machinery Systems Technician, Career Certificate

Vending and Automatic Merchandising, Degree and Career Certificate

Wastewater Treatment Plant Operation, Degree and Certificate

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Program Information

The Mechanical-Electrical Technology (MET) program provides instruction in design, installation, operation, and maintenance of machinery and equipment. The entire spectrum of mechanical and electrical systems is covered which includes: heating, ventilating, air conditioning and refrigeration systems (HVAC/R). Areas of instruction include: commercial refrigeration, energy management, indoor air quality, heat pumps, building automation systems, refrigerant recovery and management, electrical controls, instrumentation, and operation of water and wastewater treatment plants.

Students learn the skills and concepts necessary to operate and maintain various mechanical and electrical systems from small residential equipment to large commercial and industrial facilities. Effective written, verbal, and electronic communication skills will be stressed across the curriculum.

The program includes both day and evening lecture and laboratory sections and is designed to give students a solid foundation in general maintenance skills included in HVAC/R industries. Students will not only learn the theory and fundamentals of air conditioning and refrigeration, but also be exposed to hands-on training in one of the most sophisticated training laboratories in the nation. Laboratory equipment students will work with includes a water cooled chiller, cooling tower, steam and hot water boilers, thermal energy storage system, power management system, packaged and spilt systems air conditioners, furnaces, and high and low temperature refrigeration systems. Students will also configure, program, and commission several Direct Digital Control (DDC) systems, pneumatics, and programmable logic controllers on state-of-the-art computer training stations.

A Career Certificate is awarded to students who satisfactorily complete the program. Students completing the program may also qualify for an Associate of Science degree. An additional certificate in Wastewater Treatment Plant Operation, and preparation for the federal refrigerant transition and recovery license examination, is also offered.

Career Opportunities

Upon completion of the MET program, students may find employment in the following industry sectors: government (federal, state, county, and city agencies), health care, utilities, construction, facilities management, engineering, high technology, food production, and manufacturing. Typical jobs titles include stationary engineer, air conditioning and refrigeration technician, maintenance mechanic, potable and waste-water treatment plant operator, automatic control technician, wholesale and manufacturer's sales representative.

Recommended High School Preparation

Completion of college level English and general mathematics courses are highly desirable, but not required. Courses in drafting, algebra, and computer fundamentals will be beneficial.

CELEBRATING 90 YEARS

Program Information

Mechanical-Electrical Technology is studied in lecture, laboratory, and shop classes. Mathematics, science and drafting, which are all related to the MET program, are also studied in MET courses.

Program Costs

In addition to normal student expenses such as textbooks, MET students must purchase coveralls and safety glasses for use in laboratory and shop classes. If this fee creates a financial burden, students should consult the Financial Aid Office for possible assistance.

Required Program	Units
MET 351, Basic Machinery Systems	5
MET 352, Machinery Systems Calculations	5
MET 355, Oxy-Acetylene Welding and Related Processes	3
MET 220, Technical Communication (Same as TECH 103)	3
or MET 257, Fundamentals of Workplace Success	1.5
MET 361, Refrigeration Systems	4
MET 362, Refrigeration Systems Calculations	3
MET 363, Refrigerant Transition and Recovery Processes and Procedures	1.5
MET 364, Electrical Controls	4
MET 392, Heat Pump Operation and Maintenance, OR	
or MET 395, Automatic Dispensing and Vending Machines	
or MET 396, Household Appliance Service	
or MET 397, Basic Potable Water and Wastewater Treatment Processes	3
MET 371, Heating and Power Machinery	4
MET 372, Power Machinery, Heating and Air Conditioning Calculations	3
MET 373, Piping, Electrical and Sheet Metal Drafting	4
MET 374, Automatic Controls Systems I	3
MET 381, Air Conditioning	4
MET 383, Instrumentation	4
MET 384, Automatic Control Systems II	3
Total Units Required	**55-56.5**

Although a student may elect to take more than one of these optional classes, MET 395, 392, 397, or 396, only one of the four is required. These courses may be taken in any semester.

Suggested Electives
MET 230, 231, 382, 385, 386; PHYS 310

Associate in Science Degree (A.S.)
The Associate in Science Degree may be earned by completion of the required program with grades of "C" or better, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Wastewater Treatment Plant Operation

Associate of Science Degree
Career Certificate

To obtain the Wastewater Treatment Plant Operation certificate sponsored by California State University, Sacramento and the Mechanical-Electrical Technology Department at Sacramento City College, a student must complete the courses in the Mechanical-Electrical Technology required program, plus MET 397 with grades of "C" or better.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate: A Career Certificate may be obtained by completion of the MET Required Program with grades of "C" or better.

Transfer Students
Students who, after completing this program, are planning to continue specialization in this field by transferring to a four-year university, should consult the Requirements of Transfer Institutions section in this catalog and the Engineering or related major sections of the specific catalog for the institution to which they wish to transfer. Consultation with an SCC counselor is urged.

Vending and Automatic Merchandising

Associate of Science Degree
Career Certificate

The primary emphasis of this program is preparation for entry level employment as a Vending and Automatic Merchandising Service or Repair Technician.

Required Program	Units
MET 351, Basic Machinery Systems	5
MET 352, Machinery Systems Calculations	5
MET 220, Technical Communication (same as TECH 103)	3
MET 361, Refrigeration Systems	4
MET 362, Refrigeration Systems Calculations	3
MET 364, Electrical Controls	4
MET 395, Automatic Dispensing and Vending Machines	3
Total Units Required	**27**

Suggested Electives
MET 256, PHYS 310

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better or equivalent.

Machinery Systems Technician

Career Certificate

Required Program	Units
MET 351, Basic Machinery Systems	5
MET 352, Machinery Systems Calculations	5
MET 355, Oxy-Acetylene Welding and Related Processes	3
MET 256, Fundamentals of Instruments and Electricity	1.5
MET 257, Fundamentals of Workplace Success	1.5
MET 361, Refrigeration Systems	4
MET 362, Refrigeration Systems Calculations	3
MET 363, Refrigerant Transition and Recovery Processes and Procedures	1.5
MET 364, Electrical Controls	4
MET 255, Machinery Systems Maintenance	1.5
Total Units Required	**30**

Program Electives
MET 395, MET 392, MET 397

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Mechanical-Electrical Technology (MET)

MET 220 Technical Communication (Same as TECH 103) 3 Units

Formerly: MET 67

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 50 with a grade of "C" or better.
General Education: AA/AS D1 and writing competency
36 hours Lecture; 54 hours Laboratory
This course provides applications of writing and speaking skills for the business environment. Each student writes a minimum of 6,000 words, including a final essay exam. Units of instruction include: the process and techniques of technical writing, basic word processor usage, writing and preparing typical job related memos, letters, employment letters, resumes, specifications, procedures, abstracts, summaries, instructions, manuals, requisitions, purchase orders, and other documentation used in industry. An oral report, a formal proposal, and a final written essay will be required.

MET 230 Spa and Pool Technology: Technician I 2 Units

Formerly: MET 90A

Prerequisite: None
36 hours Lecture
This course focuses on identifying problems, terminology, definitions, and the way equipment operates. Technician II curriculum will focus on solving problems.

MET 231 Spa and Pool Technology: Technician II 2 Units

Formerly: MET 90B

Prerequisite: None
36 hours Lecture
This course focuses on problem solving and hands-on activities related to the equipment and chemical maintenance of spas and pools.

MET 255 Machinery Systems Maintenance 1.5 Units

Formerly: MET 65

Prerequisite: None
27 hours Lecture
This course introduces the student to basic maintenance concepts for the basic machinery systems. Units of instruction include coil maintenance, filters management, indoor air quality, lubrication, belts and drives, verifying operation, monitoring equipment and maintenance contracts.

MET 256 Fundamentals of Instruments and Electricity 1.5 Units

Formerly: MET 56

Prerequisite: None
27 hours Lecture
This course introduces the student to the fundamentals of electrical instruments and concepts required in commercial and industrial practice. Units of instruction include: fundamentals of electricity, ohms law, use of voltmeters, ammeters, ohmmeters, series and parallel circuits, wiring diagrams and electro-magnetic theory.

MET 257 Fundamentals of Workplace Success 1.5 Units

Formerly: MET 57

Prerequisite: None
27 hours Lecture
This course provides the student with basic workplace skills needed to enter the workforce as a machinery systems technician. Units of instruction include teamwork, ethics, diversity, communication skills, writing e-mail messages, Internet websites, conflict resolution, critical thinking, problem solving, conflict resolution, career management, sexual harassment, drug and alcohol use.

MET 294 Topics in Mechanical-Electrical Technology .5-4 Units

Formerly: MET 80

Prerequisite: None
27 hours Lecture; 54 hours Laboratory
This is a specialized course which has been developed in cooperation with industry to address emerging training needs. This course may be taken no more than three times for credit provided there is no duplication of topics.

MET 351 Basic Machinery Systems 5 Units

Formerly: MET 51

Prerequisite: None
Advisory: Completion of or concurrent enrollment in MET 352 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course is designed to introduce the student to the theoretical and practical applications of basic machinery systems utilized in refrigeration, heating, cooling, steam power generation, and the treatment of water for use in machinery systems, potable water and wastewater treatment plants. Additional studies include fundamental laws of heat; theory of refrigeration and refrigerants; installation, operation and testing of refrigeration units; and safe, efficient use of related hand, heat and power tools. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 352 Machinery Systems Calculations 5 Units

Formerly: MET 52

Prerequisite: None
Advisory: Completion of or concurrent enrollment in MET 351.
General Education: AA/AS Area D2
Acceptable for credit: CSU
72 hours Lecture; 54 hours Laboratory
This course focuses on the review of mathematical skills; problem solving using metric (SI) units and English and metric unit conversations; solution of word problems involving length, area, volume, weight, strength of materials, work, power, energy, and efficiencies; exponents, scientific notation and roots; problem solving using graphs and tables; algebraic solution to applied problems; freehand sketching employing multi-view, isometric and oblique drawing methods and lettering and dimensioning. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 355 Oxy-Acetylene Welding and Related Processes 3 Units

Formerly: MET 55A

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides instruction in the theory and practice of braze welding, silver brazing and soft soldering. Units of instruction include related safety procedures and practices, the adhesion theory of filler materials, chemical and physical effects of fluxes and filler materials, oxy-acetylene and air-acetylene equipment usage in the different processes.

MET 361 Refrigeration Systems 4 Units

Formerly: MET 61

Prerequisite: MET 351 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This is a course devoted to the study of residential and commercial refrigeration systems and equipment. Students learn about mechanical compression and absorption refrigeration devices; their operating characteristics, common applications and typical servicing procedures and related safety practices are covered. Hand tools, power tools, and test instruments are used by the student in lab to repair and service refrigeration devices. Students gain additional experience by operating an ammonia refrigeration unit in lab and by analyzing system performance with pressure-enthalpy diagrams. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 362 Refrigeration Systems Calculations 3 Units

Formerly: MET 62

Prerequisite: MET 352 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course focuses on mathematical problems involving English and metric (SI) units concerned with installation, operations, and maintenance of commercial and industrial refrigeration systems. Emphasis will be placed on basic heat transfer, loads, piping, equipment performance, and economic factors. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 363 Refrigerant Transition and Recovery Processes and Procedures 1.5 Units

Formerly: MET 63

Prerequisite: None
Advisory: MET 351 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture
This course focuses on the recovery and recycling of existing refrigerants, the transition to environmentally safe refrigerants, and the preparation for certification testing in refrigerant handling as mandated by the Clean Air Act, 40 CFR, part 82, subpart F and regulated by the Environmental Protection Agency (EPA). Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 364 Electrical Controls 4 Units

Formerly: MET 64

Prerequisite: MET 351 and 352 with grades of "C" or better.
Advisory: Completion of or concurrent enrollment in MET 361 and 362.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to power and control circuits and devices used with refrigerating, heating, cooling, pumping, water treating and solar heating machinery systems. Units of instruction include a study of electron theory, magnetism, inductions, alternating current, direct current, resistance and capacitance. Practice using electrical meters and test instruments in laboratory classes along with related safety practices will also be covered. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 371 Heating and Power Machinery 4 Units

Formerly: MET 71

Prerequisite: MET 364 with a grade of "C" or better.
Advisory: Concurrent enrollment in MET 372.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides instruction in warm air furnaces, hydronic heating, steam and power plant systems. Instruction includes pumps, pumping head calculations, combustion principles, steam and hot water boilers, warm air furnaces, boiler safety and operating controls, boiler emissions. Laboratory activities include operation, testing, maintenance and troubleshooting of warm air furnaces and steam/hot water heating systems. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 372 Power Machinery, Heating and Air Conditioning Calculations 3 Units

Formerly: MET 72

Prerequisite: MET 361 and 362 with grades of "C" or better.
Advisory: Concurrent enrollment in MET 371.
Acceptable for credit: CSU
54 hours Lecture
This course focuses on mathematical problems involving English and metric (SI) units concerned with installation, operation and maintenance of power machinery, heating and air conditioning systems. Emphasis will be placed on heat transfer, heating/cooling loads, pipe and pump sizing, steam and hot water system performance, psychometrics, and duct sizing calculations. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 373 Piping, Electrical, and Sheet Metal Drafting 4 Units

Formerly: MET 73

Prerequisite: MET 361, 362, and 364 with grades of "C" or better.
Advisory: Concurrent enrollment in MET 371, 372, and 374.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course focuses on the basic drafting practices used in industries related to the Mechanical Electrical Technology curriculum. Units of instruction include interpretation of mechanical-electrical drawings and specifications; practices used in the design of piping, electrical and sheet metal systems; calculation methods used to size pumps and piping systems; freehand sketching techniques; and related safety practices. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 374 Automatic Control Systems I 3 Units

Formerly: MET 74

Prerequisite: MET 364 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the first of two courses (see MET 384) that focus on the study of controls and devices that are used in heating, ventilation, air conditioning, pumping, water treatment, and manufacturing systems. Units of instruction include introduction to control theory, final controls devises, and pneumatic control systems. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 381 Air Conditioning 4 Units

Formerly: MET 81

Prerequisite: MET 371 and 372 with grades of "C" or better.
Advisory: Concurrent enrollment in MET 384.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides instruction in the design, operation, maintenance of commercial and industrial air conditioning systems. Instruction includes study of air distribution, variable air volume systems, refrigeration compressors, absorption air condition systems, helical-rotary and centrifugal water chillers, chilled water systems, thermal storage, cooling towers, and energy management. Students will gain practical experience by operating commercial air conditioning systems. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 382 Air Conditioning Systems Calculations 3 Units

Formerly: MET 82

Prerequisite: MET 372 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course provides an introduction to the use of computer applications in solving problems concerned with the design, installation, and operation of air conditioning systems. Units of instruction include calculating heating and cooling loads, piping, air distribution, equipment selection, psychometric and economic analysis. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 383 Instrumentation 4 Units

Formerly: MET 83

Prerequisite: MET 361 and 362 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides instruction in the theory and practice of using instruments for testing and analyzing the operation of refrigerating, air conditioning, mechanical, electrical and building systems. Units of instruction include a study of measurement principles including temperature, humidity, flow, light, sound, velocity, pressure, combustion emissions, air quality, voltage, level, force, and vibration. Laboratory activities will emphasize the practical applications of sensors and measuring instruments. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 384 Automatic Control Systems II 3 Units
Formerly: MET 84

Prerequisite: MET 374 with a grade of "C" or better.
Advisory: Concurrent enrollment in MET 381.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the second of two courses (see MET 374) that focus on the study of controls and devices that are used in heating, ventilation, air conditioning, pumping, water treatment, and manufacturing systems. Units of instruction include electronic and direct digital controls, networks, interoperable systems, and programming of controllers. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 385 Water Treatment for Heating and Air Conditioning Equipment 3 Units
Formerly: MET 85

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on basic mechanical system water sides theory of corrosion, scaling, and algae-slime growth-corrosion inhibition, chemicals and feed-bleed-blowdown systems; scaling inhibition, chemicals, and feed-blowdown systems; algae inhibition and chemicals; testing methods, kits, and instruments; and, water quality standards.

MET 386 Air and Water Balance of Mechanical Equipment 3 Units
Formerly: MET 86

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on air and water flow theory; air and water systems and components; air flow measuring instruments, their calibration and use; and, typical water flow balance work.

MET 392 Heat Pump Operation and Maintenance 3 Units
Formerly: MET 92A

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in basic refrigeration and heat pump theory. Heat pump cooling and heating cycles. Heat pump controls, defrost cycles, supplemental heat, and flow control devices.

MET 393 Heat Pump Operation and Maintenance 3 Units
Formerly: MET 92B

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in basic refrigeration and heat pump theory. Heat pump cooling and heating cycles. Heat pump controls, defrost cycles, supplemental heat, and flow control devices.

MET 395 Automatic Dispensing and Vending Machines 3 Units
Formerly: MET 91

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on the study of carbonation and common carbonation processes, post-mix and pre-mix dispensing valves, coin mechanisms, can and bottle vendors, brixing instruments, electrical-electronic components and circuits, mechanical devices and mechanical refrigeration systems of automatic vending and dispensing machines, and operation and maintenance practices. Related safety and sanitary procedures will also be covered.

MET 396 Household Appliance Service 3 Units
Formerly: MET 96A

Prerequisite: None
Advisory: Eligibility for ENGRD 110.
Acceptable for credit: CSU
54 hours Lecture
This course covers career opportunities, customer relations, and related codes of household appliance. Units of instruction include theory of operation and installation of hot water heaters, garbage compactors, garbage disposals, clothes washers, clothes dryers, dishwashers, ranges, ovens, humidifiers, window air conditioners and related safety practices. It is designed for students interested in preparing for employment and certification in the appliance service and repair field.

MET 397 Basic Potable Water and Wastewater Treatment Processes 3 Units
Formerly: MET 93

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on water resources and their preservation; potable water treatment systems and processes; system components; wastewater treatment systems and processes; related operation and safety practices.

Metals Industry Technology M I T

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

MIT 100 Introduction to Welding 1.5 Units

Formerly: MIT 52

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
This course is an introduction to welding processes, including, print reading, oxy-acetylene welding and cutting, shielded metal arc, gas metal arc, safety and the proper use, care and setup of equipment used in this course. This will be beneficial to the student with limited or no technical knowledge of Metals Industry Technology. This course may be taken three times for credit to build an appropriate skill level. This course requires safety glasses, leather gloves, work shoes, and hearing protection.

MIT 326 Advanced Oxy-Acetylene Welding and Related Processes 1.5 Units

Formerly: MIT 57

Prerequisite: Completion of MIT 322.
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This course provides instruction in the theory and practice of advanced oxy-acetylene welding and related processes. Units of instruction include: related safety procedures, out-of-position welding, pipe welding, braze welding, machine flame cutting, hand forging, heat treating, case hardening, hard facing and inspection, and testing procedures. Safety glasses, leather gloves, work clothing and work shoes are required. This course may be taken three times for credit.

Motorcycle Maintenance Technician MTRCL

Associate in Science Degree

Career Certificate

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Career Opportunities

This Motorcycle Maintenance Technician Associate in Science Degree prepares students to enter the motorcycle maintenance field with all of the necessary skills to perform entry-level work as well as to have a thorough understanding of theory so they can participate in advanced training at the dealer or manufacturer.

Required Program	Units
MTRCL 100, Introduction to Motorcycles, Motorcycle Design, and Maintenance Theory	5
MTRCL 110, Motorcycle Engine Theory	4
MTRCL 101, Fuel, Lubrication and Cooling	4
MTRCL 102, Motorcycle Electrical Systems	4
MTRCL 120, Motorcycle Exhaust, Frame, Suspension, Tires, Wheels, and Brakes	4
MTRCL 140, Motorcycle Tune-Up and General Service	4
MTRCL 130, Motorcycle Engine Overhaul	3
MTRCL 150, Power Transmission Systems	4
Total Units Required	**32**

Suggested Electives

CHEM 330; ET 300, 301; MIT 100; MTRCL 141, PHYS 310, EVT 121.

Associate in Science Degree (A.S.)

The Associate in Science degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to reach a 60-unit total. See SCC graduation requirements.

Career Certificate

The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

CELEBRATING 90 YEARS

Motorcycle Maintenance (MTRCL)

MTRCL 100 Introduction to Motorcycles, Motorcycle Design, and Maintenance Theory 5 Units

Formerly: MTRCL 50

Prerequisite: None
90 hours Lecture
As an introduction to motorcycles, this course offers a view of the history of motorcycles as well as a discussion of modern machines. Further, it gives the student an overview of the theory of operation and design principles involved in motorcycle maintenance.

MTRCL 101 Fuel, Lubrication and Cooling 4 Units

Formerly: MTRCL 54

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry or students who have a BS in Mechanical Engineering or similar discipline.
63 hours Lecture; 27 hours Laboratory
This course covers the principles, theory of operation, design and function of motorcycle fuel, lubrication and cooling systems as well as the inspection, disassembly, cleaning, measuring and rebuilding of the components of those systems. Upon the successful completion of this class, a student should be able to perform preventive maintenance, troubleshoot discrepancies, repair the system components and assist customers in selecting suitable aftermarket parts in both dealer and independent shop settings. Safety glasses, ear protection, and closed-toe leather shoes are required.

MTRCL 102 Motorcycle Electrical Systems 4 Units

Formerly: MTRCL 56

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry or students who have a BS in Mechanical Engineering or similar discipline.
63 hours Lecture; 27 hours Laboratory
This course covers the principles of basic electricity including terms, circuits, wiring diagrams and symbols, magnetism and methods of providing electrical energy for motorcycles. Various electrical components of generation, regulation, distribution, control, switching and methods of testing of motorcycle electrical systems will be discussed as well. Further, ignition systems and how they relate to the engine components will be covered. Safety glasses, ear protection, and closed-toe leather shoes are required.

MTRCL 105 Applied Basic Motorcycle Maintenance 3 Units

Formerly: MTRCL 80

Prerequisite: None
54 hours Lecture
As an introduction to basic motorcycle maintenance, this course gives the students a comprehensive overview of the history of motorcycles, motorcycle safety, the theory of operation of modern motorcycle systems as well as maintenance theory and practical applications of those principles. Upon the successful completion of this course, the student should have an understanding of basic maintenance issues such as selecting the correct fuels, oils and filters, checking wheel alignment, lubrication methods, common modification mistakes as well as general service and maintenance. Safety glasses, ear protection and closed-toe leather shoes are required.

MTRCL 110 Motorcycle Engine Theory 4 Units

Formerly: MTRCL 52

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry, or students who have a BS in Mechanical Engineering or similar discipline.

63 hours Lecture; 27 hours Laboratory

This course offers a comprehensive view of how two and four-stroke motorcycle engines work through careful discussion of the theory of operation and technical principles involved in converting fuel to motion. This course is also excellent for technical as well as non-technical students who are interested in understanding any modern internal combustion engine. Safety glasses, ear protection and closed-toe leather shoes are required.

MTRCL 120 Motorcycle Exhaust, Frame, Suspension, Tires, Wheels, and Brakes 4 Units

Formerly: MTRCL 64

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry, or students who have a BS in Mechanical Engineering or similar discipline.

63 hours Lecture; 27 hours Laboratory

This course covers the theory, design and function of motorcycle exhaust systems, various frame and suspension designs, tires, cast and spoked wheels, and both disk and drum brakes. Upon the successful completion of this course, a student should be able to perform preventive maintenance, troubleshoot discrepancies, repair the systems and assist customers in selecting suitable after-market parts in both a dealer and independent shop setting. Safety glasses, ear protection and closed-toe leather shoes are required.

MTRCL 130 Motorcycle Engine Overhaul 3 Units

Formerly: MTRCL 70

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry or students who have a BS in Mechanical Engineering or similar discipline.

36 hours Lecture; 54 hours Laboratory

This course offers a comprehensive view of the parameters determining the need for overhaul of modern motorcycle engines, the methods and techniques involved and the adjustments and operations check afterwards. Further, it covers the use of overhaul and parts manuals and the logic employed in them. Upon the successful completion of this class, a student should be able to perform a complete overhaul of the various types of modern motorcycle engines including water-cooled, multi-valve engines as well as air-cooled V-twins. The student should be able to provide advise to the customer about sensible performance modifications. Safety glasses, ear protection and closed-toe leather shoes are required.

MTRCL 140 Motorcycle Tune-up and General Service 4 Units

Formerly: MTRCL 66

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry or students who have a BS in Mechanical Engineering or similar discipline.

63 hours Lecture; 27 hours Laboratory

This course covers motorcycle tune-up, general service, ignition and valve adjustment, lubrication and oil and filter changes as well as the special tools required. Further, it covers service and parts books, microfiche and computerized manuals and the logic employed in them. Upon the successful completion of this class, a student should be able to perform virtually all aspects of scheduled maintenance such as tune-ups, valve adjustment, oil changes and lubrication service as well as troubleshoot and repair common maintenance discrepancies. Safety glasses, ear protection and closed-toe shoes are required.

MTRCL 141 Motorcycle Dyno Operation and Data Acquisition 1.5 Units

Formerly: MTRCL 76

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry or students who have a BS in Mechanical Engineering or similar discipline.

18 hours Lecture; 27 hours Laboratory

This is an in-depth course covering motorcycle engine and component theory and function as related to dynamometer operation. Further, it covers using a dyno for data acquisition for successful maintenance discrepancy diagnosis and solution. Various motorcycles will be run on the SCC dyno so students can use the data to trouble-shoot maintenance problems. After the repairs or adjustments, the motorcycles will be run again to measure the results. Required materials for this course include leather closed-two shoes, safety glasses, and ear protection.

MTRCL 150 Power Transmission Systems 4 Units

Formerly: MTRCL 72

Prerequisite: MTRCL 100 with a grade of "C" or better; MTRCL 100 can be challenged by exam by students who are ASE Certified Auto Technicians, FAA A&P Certificate holders, motorcycle technicians with two years recent experience in the industry or students who have a BS in Mechanical Engineering or similar discipline.

63 hours Lecture; 27 hours Laboratory

This course covers motorcycle power transmission systems from the engine crankshaft through the clutch and transmission, and through the final drive system to the rear wheel. Theory of operation including lubrication requirements, gear ratios, design and function of the primary drive, the clutch, the transmission and the final drive will be covered. Clutches, transmissions and drive systems will be removed, disassembled, cleaned, inspected, measured, rebuilt, reinstalled and checked for proper operation. Safety glasses, ear protection, and closed-toe leather shoes are required.

Music MUFHL MUIVI MUP MUSM

General Music, Associate in Arts Degree
Commercial Music, Associate in Arts Degree and Career Certificate

with Emphasis in:

Audio Production

Music Business Management

Performance

Songwriting/Arranging

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Music, General

The general music degree provides the foundation for future performers, composers, educators, writers and researchers, and music therapists. Students receive training in instrumental and vocal techniques and performance, music theory, and music history. Students who plan to transfer to a four-year college or university are advised to complete this course of study.

Recommended High School Preparation
Some background in voice or instrument. Ability to read music.

Note: The music courses are divided into four topic areas. They are:

MUFHL, Music Fundamentals/History and Literature

MUP, Music Performance

MUIVI, Instrumental/Voice Instruction

MUSM, Specializations in Music

Required Program	**Units**
MUFHL 400, Music Theory	4
MUFHL 401, Music Theory	4
MUFHL 410, Advanced Music Theory	4
MUFHL 411, Advanced Music Theory	4
MUFHL 310, Survey of Music History and Literature	3
MUFHL 311, Survey of Music History and Literature	3
MUIVI 345, Beginning Piano	1-2
MUIVI 346, Beginning Piano	1-2
A minimum of 4 units from the following:	4
Four semesters from one selected field (Voice, Brass, Percussion, Strings, Woodwinds, Keyboard).	
MUIVI 315, Voice Class	(1-2)
MUIVI 325, Voice Class, Intermediate	(1-2)
MUIVI 330, Advanced Voice	(1-2)
MUIVI 410, Applied Music	(1)
MUIVI 441, Brass Instruction	(1-2)
MUIVI 447, Percussion Instruction	(1-2)
MUIVI 375, Popular Electric Guitar Styles	(1)
MUIVI 443, String Instruction	(1-2)
MUIVI 445, Woodwind Instruction	(1-2)
MUIVI 355, Intermediate Piano	(1-2)
MUIVI 356, Intermediate Piano	(1-2)
MUIVI 357, Intermediate Piano	(1-2)
MUIVI 358, Intermediate Piano	(1-2)
MUP 419, Piano Ensemble	(1-2)
A minimum of 8 units from the following: Music Performance Course (MUP)	8
Total Units Required	**36-38**

Each semester of attendance, select from one field: (1) Instrumental Major: Concert Band, Symphonic Band, or Jazz Ensemble, (2) Voice Major: College Choir or Vocal Ensemble, (3) Keyboard Major: Jazz Band, Piano Ensemble, or Commercial Music Ensemble.

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to reach a 60-unit total. See SCC graduation requirements.

Transfer Students

In addition to the information above, students should consult the Requirements of Transfer Institutions section in this catalog and the music or related major sections of the specific catalog for the institution to which they wish to transfer, to determine entrance, general graduation, and major requirements. Consultation with SCC music staff and an SCC counselor is strongly recommended.

Recommended Course Sequence

First Semester	**Units**
MUFHL 400, Music Theory	4
Performance Group	1-2
Applied Music	1-2
Social Science	3
Language/Rationality	3
MUIVI 345, Beginning Piano	1-2
Electives	0-2
	15

Students also must meet basic skills proficiencies in reading, writing, and mathematics. Check with your SCC counselor for requirements.

Students without keyboard proficiency must take MUIVI 345 and MUIVI 346 during this semester.

Second Semester	**Units**
MUFHL 401, Music Theory	4
Performance Group	1-2
Applied Music	1-2
Social Science	3
Language/Rationality	3
MUIVI 346, Beginning Piano	1-2
Electives	0-2
	15

Students also must meet basic skills proficiencies in reading, writing, and mathematics. Check with your SCC counselor for requirements.

Students without keyboard proficiency must take MUIVI 346 during this semester.

Third Semester	**Units**
MUFHL 410, Advanced Music Theory	4
MUFHL 310, Survey of Music History and Literature	3
Performance Group	1-2
Applied Music	1-2
Natural Science	3
Electives	1-3
	15

Fourth Semester	**Units**
MUFHL 411, Advanced Music Theory	4
MUFHL 311, Survey of Music History and Literature	3
Performance Group	1-2
Applied Music	1-2
Living Skills	1-3
	15

Students also must meet basic skills proficiencies in reading, writing, and mathematics. Check with your SCC Counselor for requirements.

Suggested Electives
ARTH 300, TA 370, 440, PHIL 300 or any music course.

Commercial Music

Career Opportunities

The Commercial Music option includes four areas of emphasis for career preparation:

(1) Audio Production Emphasis: This program is designed as introductory preparation for employment as in audio engineering. Courses in the theory and practice of recording techniques are offered to a give students a well-rounded foundation to begin work and/or to pursue a four-year degree.

Career Opportunities: Audio engineers in professional recording studios, smaller electronic oriented demo production studios, and the fast growing area of audio specialist in multi-media post-production for corporate audio-visual departments.

(2) Music Business Management Emphasis: This program is designed to prepare students who are interested in music, but not as performers, for entry level positions in the music industry in the areas of artist management, music publishing, talent agencies, concert promotion, and music retail.

Career Opportunities: Artist management and representation, music publishing and distribution, music legal services, public relations, concert promotion, and music retail.

(3) Performance Emphasis: This program is designed to prepare students to perform in the styles of popular music most often heard on radio, television, and live concert venues.

Career Opportunties: Performer of various styles of popular music - live and recorded.

(4) Songwriting/Arranging Emphasis: This program is designed to prepare students for free-lance employment in song-publishing, submission of songs to major recording artists, composition of jingles for advertising agencies, arranging music for schools and churches, and song demo production using MIDI techniques.

Career Opportunities: Freelance songwriting and arranging for commercial groups, advertising, schools, and churches.

Audio Production Emphasis

Associate in Arts Degree
Career Certificate

Required Program	**Units**
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUSM 110, The Business of Music	3
MUSM 342, Recording Studio Techniques	3
MUSM 344, Recording Studio Techniques	3
MUSM 350, Recording Studio Techniques	3
MUSM 354, Recording Sessions Workshop	1.5
MUSM 354, Recording Sessions Workshop	1.5
MUSM 356, Pro Tools 101, Introduction to Pro Tools	1.5
MUSM 362, Studio Mixdown Techniques	1.5
MUSM 366, Pro Tools 201, Advanced Pro Tools	1.5
MUSM 367, Audio for Video Post Production	1.5
A minimum of 7 units from the following:	7
MUIVI 345, Beginning Piano (1-2)	
MUIVI 300, Beginning Instruments (1-2)	
MUFHL 305, Music Appreciation (3)	
MUFHL 331, World Music: Africa, Europe, and the Middle East (3)	
MUFHL 310, Survey of Music History and Literature (3)	

MUFHL 311, Survey of Music History and Literature (3)
MUFHL 315, Jazz History (3)
MUSM 340, Introduction To Desktop Audio (1)
MUSM 330, Introduction to MIDI: Musical Instrument Digital Interface (2.5)
MUSM 331, Introduction to MIDI: Musical Instrument Digital Interface (2.5)
MUSM 332, Introduction to MIDI: Musical Instrument Digital Interface (2.5)
MUSM 333, Introduction to MIDI: Musical Instrument Digital Interface (2.5)
ET 300, DC Theory and Circuit Fundamentals (2.5)
ET 301, AC Theory and Circuit Fundamentals (2.5)
ET 320, Semiconductor Theory (5)

Total Units Required 34

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained upon completion of required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Music Business Management Emphasis

Associate in Arts Degree
Career Certificate

Required Program	Units
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUSM 110, The Business of Music	3
BUS 300, Introduction to Business	3
CISC 300, Computer Familiarization	1
MKT 316, Public Relations	3
MUSM 342, Recording Studio Techniques	3
MUFHL 305, Music Appreciation	3
MUFHL 331, World Music: Africa, Europe, and the Middle East	3
A minimum of 12 units from the following:	12
Select at least one course from each group:	
Business Management (CISA 305, 340; MGMT 308; ACCT 101; TA 440; GCOM 310)	
Retail Marketing (MKT 300, 310, 314)	
Communication Skills (COMM 302, 343; MGMT 372, PSYC 358)	

Total Units Required 37

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained upon completion of required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Performance Emphasis

Associate in Arts Degree
Career Certificate

Required Program	Units
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUIVI 345, Beginning Piano	2
MUFHL 400, Music Theory	4
MUFHL 401, Music Theory	4
MUSM 110, The Business of Music	3
MUSM 330, Introduction to MIDI: Musical Instrument Digital Interface	2
MUSM 331, Introduction to MIDI: Musical Instrument Digital Interface	2
MUSM 342, Recording Studio Techniques	3
MUIVI 410, Applied Music	1
MUIVI 380, Improvisation Workshop	2
Performance Emphasis Electives -	
A minimum of 1 unit from the following:	1
MUP 315, Orchestra (1-2)	
MUP 325, Jazz Band (1-2)	
MUP 335, Concert Band (1)	
MUP 340, Symphonic Band (2)	
MUP 355, College Choir (1-2)	
MUP 402, Vocal Ensemble (1-2)	
MUP 424, Commercial Music Ensemble (2)	
A minimum of 5 units from the following:	5
MUFHL 410, Advanced Music Theory (4)	
MUFHL 411, Advanced Music Theory (4)	
MUFHL 430, Commercial Harmony and Arranging (2)	
MUFHL 431, Commercial Harmony and Arranging (2)	
MUFHL 331, World Music: Africa, Europe, and the Middle East (3)	
MUFHL 310, Survey of Music History and Literature (3)	
MUFHL 311, Survey of Music History and Literature (3)	
MUSM 332, Introduction to MIDI: Musical Instrument Digital Interface (2.5)	
MUSM 333, Introduction to MIDI: Musical Instrument Digital Interface (2.5)	
MUSM 344, Recording Studio Techniques (3)	
MUSM 350, Recording Studio Techniques (3)	
MUSM 320, Contemporary Songwriting (3)	
MUSM 321, Contemporary Songwriting (3)	
MUIVI 315, Voice Class (1-2)	
MUIVI 325, Voice Class, Intermediate (1-2)	
MUIVI 330, Advanced Voice (1-2)	
MUIVI 355, Intermediate Piano (1-2)	
MUIVI 356, Intermediate Piano (1-2)	
MUIVI 365, Popular Piano Styles (1-2)	

Total Units Required 35-36

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained upon completion of required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Songwriting/Arranging Emphasis

Associate in Arts Degree
Career Certificate

Required Program	Units
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUFHL 400, Music Theory	4
MUFHL 401, Music Theory	4
MUIVI 345, Beginning Piano	1-2
MUSM 110, The Business of Music	3
MUSM 320, Contemporary Songwriting	3
MUSM 321, Advanced Songwriting	3
MUSM 330, Introduction to MIDI: Musical Instrument Digital Interface	2
MUSM 331, Introduction to MIDI: Musical Instrument Digital Interface	2
MUSM 342, Recording Studio Techniques	3
Songwriting/Arranging Emphasis Electives - A minimum of 5 units from the following:	5
MUFHL 410, Advanced Music Theory (4)	
MUFHL 411, Advanced Music Theory (4)	
MUFHL 430, Commercial Harmony and Arranging (2)	
MUFHL 431, Commercial Harmony and Arranging (2)	
MUSM 332, Introduction to MIDI: Musical Instrument Digital Interface (2.5)	
MUSM 333, Introduction to MIDI: Musical Instrument Digital Interface (2.5)	
MUSM 344, Recording Studio Techniques (3)	
MUSM 350, Recording Studio Techniques (3)	
MUP 424, Commercial Music Ensemble (2)	
MUFHL 331, World Music: Africa, Europe, and the Middle East (3)	
MUFHL 315, Jazz History (3)	
MUFHL 305, Music Appreciation (3)	
MUFHL 310, Survey of Music History and Literature (3)	
MUFHL 311, Survey of Music History and Literature (3)	
ENGCW 400, Creative Writing (3)	
ENGLT 494, Topics in Literature (3)	
ENGLT 303, Introduction to the Short Story (3)	
Total Units Required	**37-38**

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained upon completion of required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Music

Note: The music courses are divided into four topic areas. They are:
MUFHL, Music Fundamentals/History and Literature
MUP, Music Performance
MUIVI, Instrumental/Voice Instruction
MUSM, Specializations in Music

Music Fundamentals, History & Lit (MUFHL)

MUFHL 305 Music Appreciation — 3 Units

Formerly: MUFHL 7

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to classical music styles and composers. It includes a study of the basic elements of music (melody, harmony, form, etc.), musical instruments, a historical survey of classical music and some techniques for listening and enjoying music. No previous musical experience is required.

MUFHL 309 Introduction to American Popular Music — 3 Units

Formerly: MUFHL 13

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the history of popular music in America and the diversity of current styles including classic rock, hard rock, country, jazz, Rhythm and Blues, blues, Latin, rap, reggae, alternative, folk, techno, and others. The emphasis of the course is on listening to music. The course also explores the relationship of popular music to society and other media art forms such as music videos and film.

MUFHL 310 Survey of Music History and Literature — 3 Units

Formerly: MUFHL 10

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC (MUFHL 310 or 481, maximum one course)/CSU
54 hours Lecture
This course is a historical survey of Western classical music from Greek antiquity through the Baroque period (c.1750). Students use listening exercises and readings to study the development of classical music in historical and cultural contexts. Students study the aesthetic principles and values from various eras to develop their own musical and artistic judgments. The course meets the requirement for music majors.

MUFHL 311 Survey of Music History and Literature 3 Units

Formerly: MUFHL 11

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C
Acceptable for credit: UC (MUFHL 311 or 482, maximum one course)/CSU
54 hours Lecture
This course is a historical survey of Western classical music from the 18th Century Enlightenment through modern times. Students use listening exercises and readings to study the development of classical music in historical and cultural contexts. Students study the aesthetic principles and values from various eras to develop their own musical and artistic judgments. The course meets the requirement for music majors.

MUFHL 315 Jazz History 3 Units

Formerly: MUFHL 12

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the rich history of jazz and related styles including blues, Dixieland big band, bebop, cool jazz, jazz-rock fusion, avant-garde, popular jazz, and many others. The emphasis of the course is on listening to music. The course also explores past and current trends in the relationship of jazz to popular styles such as Rhythm and Blues, hip-hop, alternative, and others. Current and historical cultural influences from African-, European-.and Latin-American sources and their effect on jazz styles are identified and compared.

MUFHL 320 Exploring Music 3 Units

Formerly: MUFHL 1

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the basics of music, including rhythmic and pitch reading, writing and playing scales and chords, and a look at small song forms. Through analytical and creative assignments, students will also examine historical and cultural perspectives to gain an aesthetic appreciation of this art form. It is recommended as a general humanities class to those majoring in audio-engineering and to those music majors who have not had sufficient preparation for MUFHL 400. It is also recommended for those interested in teaching children and students registered in beginning instrumental and vocal classes.

MUFHL 321 Basic Musicianship 3 Units

Formerly: MUFHL 2

Prerequisite: Successful completion of MUFHL 320 with a grade of "C" or better and ability to play a musical instrument.
Acceptable for credit: UC/CSU
54 hours Lecture
This course concentrates on reading music on any instrument, sight singing, ear training and rhythmic reading. It is recommended for all students wishing to improve music-reading skills.

MUFHL 330 World Music 3 Units

Prerequisite: ENGWR 50 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Areas C, F
Acceptable for credit: CSU
54 hours Lecture
This course is a comprehensive, comparative listener survey of the folk, ethnic, dance, and ceremonial music traditions around the world and in the United States. Concepts of ethnicity, ethnocentrism, racism, ageism, class differences, and gender issues will be addressed. Guided listening presentations will show how traditional forms and styles have led to the urban, professional music popular in many countries today known as "World Beat." Music of the Americas, Africa, Asia, Australia, and Europe will be compared.

MUFHL 331 World Music: Africa, Europe, and the Middle East 3 Units

Formerly: MUFHL 9

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to traditional folk, dance, devotional and contemporary popular music from Africa, Europe and the Middle East. In many parts of the world, music is the conscience of the people and has played a dynamic role in reflecting the social issues and lifestyles that people have lived through in the past and in the present. It has been a culturally binding force in expressing the history, myth, tradition and celebration of many diverse cultures.

MUFHL 332 World Music: Latin and North American, Caribbean, India, Asia and Pacific 3 Units

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
MUFHL 332 is a study of the music and culture of Latin and North America, the Caribbean, India and Asia. It will focus on how different societies have used music to process and celebrate the cycles of life such as birth, coming of age, marriage and death. Many traditional cultures also have music and ceremonies to acknowledge the cycles of seasons throughout each year. Songs often contain the collective memory of the history and accomplishments of the ancestors. Many refer to social concerns and patterns of injustice that people have endured, often dignifying these experiences through music.

MUFHL 400 Music Theory 4 Units

Formerly: MUFHL 3A

Prerequisite: None
Advisory: Students should have some ability to play a musical instrument and read music. Concurrent enrollment in MUIVI 345 is recommended if the student has had no piano study.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This course is an introduction to music theory and its applications to classical and commercial music. Students will develop skills in musical analysis, keyboard harmony, dictation, and sight-singing. Short creative assignments will also be included.

MUFHL 401 Music Theory 4 Units
Formerly: MUFHL 3B

Prerequisite: MUFHL 400 with a grade of "C" or better.
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This course is a study of intermediate level harmony (triads, seventh chords, secondary dominants and modulation), part writing and small forms in classical and commercial music. It includes the continued development of keyboard, dictation, and sight-singing skills. Short composition assignments are also included.

MUFHL 410 Advanced Music Theory 4 Units
Formerly: MUFHL 4A

Prerequisite: MUFHL 401.
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This course is a study of advanced level, chromatic harmony (secondary dominants and leading tone sevenths, borrowed, Neapolitan, and augmented 6th chords), and small instrumental and vocal forms in classical and commercial styles. It includes the continued development of keyboard, dictation, and sight-singing skills. Short composition assignments are also included.

MUFHL 411 Advanced Music Theory 4 Units
Formerly: MUFHL 4B

Prerequisite: MUFHL 410 with a grade of "C" or better.
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This course is a study of more advanced chromatic harmony, extended harmonic structures, and modern techniques such as quartal harmony and synthetic scales. It includes the continued development of keyboard, dictation, and sight-singing skills. Short composition assignments are also included.

MUFHL 430 Commercial Harmony and Arranging 2 Units
Formerly: MUFHL 5A

Prerequisite: None
Advisory: MUFHL 401.
Acceptable for credit: CSU
36 hours Lecture
This course introduces students to the study and application of practical harmony and arranging using a variety of commercial styles (for example, jazz, rock, salsa, pop, and fusion).

MUFHL 431 Commercial Harmony and Arranging 2 Units
Formerly: MUFHL 5B

Prerequisite: MUFHL 430 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture
This course provides students with a more advanced capability in practical harmony and arranging using a variety of commercial styles (for example, pop, jazz, rock, salsa, and fusion).

MUFHL 481 Survey of Music History and Literature - Honors 3 Units
Formerly: MUFHL 10H

Prerequisite: Admission to the Honors Program, which includes a 3.0 GPA, eligibility for ENGWR 300, or upon application and letters of recommendation.
General Education: AA/AS Area C
Acceptable for credit: UC (MUFHL 310 or 481, maximum one course)/CSU
54 hours Lecture
This course is a survey of Western classical music from the time of Greek antiquity through the Baroque period (ca. 1750). Students use listening exercises, source readings, and group projects to study the development of classical music in historical and cultural contexts. Students study the aesthetic principles and values from various eras to develop their own musical and artistic judgments. This course meets the requirement for music majors. This honors section leads the student through an intensive and scholarly approach to the subject matter in a seminar environment and uses an intensive instructional methodology designed to challenge motivated students.

MUFHL 482 Survey of Music History and Literature - Honors 3 Units
Formerly: MUFHL 11H

Prerequisite: Admission to the Honors Program, which includes a 3.0 GPA, eligibility for ENGWR 300, or upon application and letters of recommendation.
General Education: AA/AS Area C
Acceptable for credit: UC (MUFHL 311 or 482, maximum one course)/CSU
54 hours Lecture
This course is a survey of Western classical music from the time of 18th century Enlightenment to present day. Students use listening exercises, source readings and group projects to study the development of classical music in historical and cultural contexts. Students study the aesthetic principles and values from various eras to develop their own musical and artistic judgments. It meets the requirement for music majors. This honors section leads the student through an intensive and scholarly approach to the subject matter in a seminar environment and uses an intensive instructional methodology designed to challenge motivated students.

Instrumental/Voice Instruction (MUIVI)

MUIVI 300 Beginning Instruments 1-2 Units
Formerly: MUIVI 40

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This is a beginning-level course for students who wish to study brass, woodwind, string, and/or percussion instruments. Topics of study include technique, repertoire, instrument care and maintenance, and performance. A minimum of two hours a week practice in the music lab is required for the two-unit option. This course may be taken four times for credit.

MUIVI 315 Voice Class 1-2 Units
Formerly: MUIVI 22A

Prerequisite: None
Advisory: ENGWR 50 with a grade of C or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is a study of the fundamentals of voice production. This course may be taken twice for credit. Concert attendance is required. A minimum of two hours a week practice in the music lab is required for the two-unit option.

MUIVI 325 Voice Class, Intermediate 1-2 Units
Formerly: MUIVI 23A

Prerequisite: MUIVI 315 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
Students study and perform vocal exercises and analyze vocal music literature for the development of efficient singing techniques. Performance of vocal music is emphasized. A minimum of two hours a week practice in the music lab is required for the two-unit option.

MUIVI 330 Advanced Voice 1-2 Units
Formerly: MUIVI 24

Prerequisite: MUIVI 325 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course focuses on the development of the voice and vocal repertoire for advanced vocal students. The music literature includes classical, sacred songs, musical theater, pop, or jazz. All students will perform as soloists in class and in vocal recitals open to the public. A minimum of two hours a week practice in the music lab is required for the two-unit option. This course may be taken twice for credit.

MUIVI 345 Beginning Piano 1-2 Units
Formerly: MUIVI 30A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is an introduction to basic piano playing and it is required for all general and commercial music majors. The course prepares students who are transferring for piano proficiency examination. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 346 Beginning Piano 1-2 Units
Formerly: MUIVI 30B

Prerequisite: Successful completion of MUIVI 345 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course continues the work begun in MUIVI 345. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 355 Intermediate Piano 1-2 Units
Formerly: MUIVI 31A

Prerequisite: Successful completion of MUIVI 346 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is an intermediate study of piano designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 356 Intermediate Piano 1-2 Units
Formerly: MUIVI 31B

Prerequisite: Successful completion of MUIVI 355 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is an intermediate study of piano, a continuation of the work begun in MUIVI 355, designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 357 Intermediate Piano 1-2 Units
Formerly: MUIVI 31C

Prerequisite: Successful completion of MUIVI 356 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is an intermediate study of piano, a continuation of the work begun in MUIVI 356, designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 358 Intermediate Piano 1-2 Units
Formerly: MUIVI 31D

Prerequisite: Successful completion of MUIVI 357 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is an intermediate study of piano, a continuation of the work begun in MUIVI 357, designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 365 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36A

Prerequisite: Successful completion of MUIVI 355 with a grade of "C" or better or equivalent piano skills.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise

and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music learning lab is needed for the two-unit option.

MUIVI 366 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36B

Prerequisite: Success completion of MUIVI 365 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music-learning lab is needed for the two-unit option.

MUIVI 367 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36C

Prerequisite: Successful completion of MUIVI 366 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music learning lab is needed for the two-unit option.

MUIVI 368 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36D

Prerequisite: Successful completion of MUIVI 367 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music learning lab is needed for the two-unit option.

MUIVI 370 Beginning Guitar 2 Units
Formerly: MUIVI 42A

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 18 hours Laboratory
This is a beginning-level course designed to familiarize students with the techniques and repertoire of the guitar. Students learn to play the instrument through the use of technical exercises and reading music notation. Simple chord progressions with both strumming and finger-style techniques will be covered. This class may be taken twice for credit.

MUIVI 371 Intermediate Guitar 2 Units
Formerly:
MUIVI 372, MUIVI 42B

Prerequisite: Successful completion of MUIVI 370 with a grade of "C" or better or by audition.
Acceptable for credit: UC/CSU
36 hours Lecture; 18 hours Laboratory
This course is designed to increase repertoire, develop technical skills, and improve sight-reading ability. In addition, ensemble playing will be emphasized and finger board theory and harmony will be explored. This course may be taken four times for credit.

MUIVI 373 Popular Electric Bass Styles 1 Unit
Formerly: MUIVI 44

Advisory: Ability to read music and play bass at an elementary level.
Acceptable for credit: UC/CSU
18 hours Lecture; 18 hours Laboratory
This course is an introduction to the elements of contemporary electric bass styles, including swing, blues, funk and Latin. This course may be taken four times for credit.

MUIVI 375 Popular Electric Guitar Styles 1 Unit
Formerly: MUIVI 45

Prerequisite: MUIVI 370 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18 hours Laboratory
This course introduces electric guitar techniques in several popular music styles: rock, blues, funk, jazz, country, and fusion. Both lead and rhythm guitar skills will be developed with an emphasis on improvisation and fingerboard harmony. This course may be taken four times for credit.

MUIVI 380 Improvisation Workshop 2 Units
Formerly: MUIVI 35A

Prerequisite: Ability to plan a musical instrument.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course is designed to give students an introduction to improvising in a variety of styles. Students will learn about basic and materials and song forms needed to improvise. Students will gain practical experience playing with others.

MUIVI 381 Improvisation Workshop 2 Units
Formerly: MUIVI 35B

Prerequisite: Successful completion of MUIVI 380 with a grade of "C" or better.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course continues work started in MUIVI 380. Students will learn about intermediate-level scale and chord materials and song forms needed to improvise. Students will gain practical experience playing with others.

MUIVI 382 Improvisation Workshop 2 Units
Formerly: MUIVI 35C

Prerequisite: Successful completion of MUIVI 381 with a grade of "C" or better.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course is a more advanced study of improvisational techniques. Students will learn about more complex scale and chord materials and song forms needed to improvise and will gain practical experience playing with others.

MUIVI 383 Improvisation Workshop 2 Units
Formerly: MUIVI 35D

Prerequisite: Successful completion of MUIVI 382 with a grade of "C" or better.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course is a more advanced study of improvisational techniques. Students will learn about more complex scale and chord materials and song forms needed to improvise and will gain practical experience playing with others.

MUIVI 405 Jazz & Pop Styles on Drum Set 1 Unit
Formerly: MUIVI 46

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture
This course is an introduction to drumset skills and various jazz and pop styles: rock, jazz, fusion, soul, Rhythm and Blues, Latin, Brazilian, Reggae, and African. Big band jazz styles are included. This course may be taken four times for credit.

MUIVI 410 Applied Music 1 Unit
Formerly: MUIVI 38

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture
This course involves off-campus instrumental or vocal study requiring a minimum of one-half hour per week of individual study with a private instructor (at student expense) for a minimum of eighteen weeks. This course meets one hour per week on campus for students to practice performing and to discuss topics related to performance. The course may be taken four times for credit.

MUIVI 441 Brass Instruction 1-2 Units
Formerly: MUIVI 26

Prerequisite: Ability to play a brass instrument.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is for brass players at the beginning and intermediate levels. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. A minimum of two hours a week practice in the music lab is required for the two-unit option. This course may be taken four times for credit on any one instrument.

MUIVI 443 String Instruction 1-2 Units
Formerly: MUIVI 28

Prerequisite: Ability to play a string instrument.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is for string players at the beginning and intermediate levels. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. A minimum of two hours a week practice in the music lab is required for the two-unit option. This course may be taken four times for credit on any one string instrument.

MUIVI 445 Woodwind Instruction 1-2 Units
Formerly: MUIVI 29

Prerequisite: Ability to play woodwind instrument.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is for woodwind players at the beginning and intermediate levels. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. This course may be taken four times for credit on any one instrument. A minimum of two hours a week practice in the music lab is required for the two-unit option.

MUIVI 447 Percussion Instruction 1-2 Units
Formerly: MUIVI 27

Prerequisite: Ability to play percussion instruments.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course is for percussion players at the beginning and intermediate levels. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. A minimum of two hours a week practice in the music lab is required for the two-unit option. This course may be taken four times for credit.

MUIVI 450 Popular Fiddle and Mandolin Instruction 1 Unit

Prerequisite: None
Advisory: The student should play his/her instrument at an intermediate level (one-to-two years of study) to get the most benefit from this course.
Acceptable for credit: CSU
18 hours Lecture; 18 Hours Laboratory
This course explores various popular fiddle and mandolin techniques and styles in the U.S. and around the world. It gives an historical overview of old-timey, blues, bluegrass, jazz, country, and rock approaches and techniques. The course also introduces various traditional ethnic styles and explores the adaptation of these styles to the modern popular commercial music scene. Both back-up and solo approaches to playing will be covered. The course will work with treble melody-chord charts of moderate difficulty. This course may be taken four times for credit.

MUIVI 452 World Drumming 1 Unit

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course explores drumming techniques and styles of various cultures around the world. The course also explores the adaptation of these styles to the modern popular commercial music scene. This course may be taken four times for credit.

Music Performance (MUP)

MUP 315 Orchestra 1-2 Units
Formerly: MUP 13
Prerequisite: Ability to play an instrument commonly found in an orchestra and read musical notation.
Acceptable for credit: UC/CSU
18 hours lecture, 18 - 54 hours laboratory
This course includes the study and performance of orchestral repertoire. It is open to those who play an orchestral instrument. It fulfills the requirements for all music majors. Students need not be music majors to enroll in this course. This course may be taken four times for credit.

MUP 325 Jazz Band 1-2 Units
Formerly: MUP 14
Prerequisite: Ability to play an instrument commonly found in a jazz band and read musical notation.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course includes the rehearsal and performance of jazz band arrangements in a wide variety of styles, such as swing, fusion, Latin, and funk. It fulfills the requirements for all music majors. Students need not be music majors to enroll in this course. This course may be taken four times for credit.

MUP 335 Concert Band 1 Unit
Formerly: MUP 16
Prerequisite: Ability to play an instrument commonly found in a concert band and read musical notation.
Acceptable for credit: UC/CSU
54 hours Laboratory
Students study and perform concert band literature covering a wide variety of styles, including classical, popular, Broadway, and jazz. Instructional assistants, with specialties in brass, woodwinds, and percussion, are available weekly during rehearsal for coaching. It fulfills the requirements for all music majors. Students need not be music majors to enroll in this course. This course is open to all students who play a band instrument and it may be taken four times for credit.

MUP 340 Symphonic Band 2 Units
Formerly: MUP 17
Prerequisite: Ability to play an instrument commonly found in a symphonic band and read musical notation.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is the study and performance of symphonic literature in a wide variety of styles. This course fulfills the requirements for all music majors. Students need not be music majors to enroll in this course. This course may be taken four times for credit.

MUP 355 College Choir 1-2 Units
Formerly: MUP 19
Prerequisite: Students should have some choral experience and/or ability to read music notation.
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course includes the rehearsal and performance of choral music covering a wide variety of styles. This course is open to all students and may be taken four times for credit.

MUP 370 Rehearsal and Performance - Musical Ensemble (Same as TA 466) .5-3 Units
Formerly: MUP 5
Prerequisite: Students are selected through audition as singers and instrumentalists.
Acceptable for credit: UC/CSU
27-162 hours Laboratory
This course is open to students performing in theatrical musical productions. Students are selected through audition as singers and instrumentalists. The course requires 54 hours of laboratory for each unit of credit. This course may be repeated up to four units maximum.

MUP 402 Vocal Ensemble 1-2 Units
Formerly: MUP 20
Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course includes the rehearsal and performance of vocal ensemble music covering a wide variety of styles. The course may be taken four times for credit.

MUP 411 Woodwind Ensemble 1-2 Units
Formerly: MUP 45
Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course includes the rehearsal and performance of ensemble music for woodwinds. The course may be taken four times for credit.

MUP 413 Percussion Ensemble 1-2 Units
Formerly: MUP 46
Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
The course includes the rehearsal and performance of ensemble music for percussion. The course may be taken four times for credit.

MUP 415 String Ensemble 1-2 Units
Formerly: MUP 47
Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course includes the rehearsal and performance of music for

guitar and/or string ensembles. The course may be taken four times for credit.

MUP 417 Brass Ensemble 1-2 Units
Formerly: MUP 44

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course includes the rehearsal and performance of ensemble music for brass. The course may be taken four times for credit.

MUP 419 Piano Ensemble 1-2 Units
Formerly: MUP 32

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18-54 hours Laboratory
This course includes the rehearsal and performance of ensemble music for piano. The course may be taken four times for credit.

MUP 422 Special Ensemble Participation .5-2 Units
Formerly: MUP 43

Prerequisite: None
Acceptable for credit: UC/CSU
108 hours Laboratory
This course is open to all students who sing or play musical instruments. Instrumentation of groups will vary, including jazz combo, piano quintet, guitar ensemble, and related music as well as choral groups. The course may be taken four times for a maximum of eight units.

MUP 424 Commercial Music Ensemble 2 Units
Formerly: MUP 40

Prerequisite: Audition required before students may enroll in the class.
Audition: Ability to play an instrument or sing at the intermediate level.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course includes the rehearsal and performance of contemporary pop and commercial styles: jazz and rock fusion, rhythm and blues, soul, folk, urban styles, country, and Latin. This course may be taken four times for credit.

MUP 426 World Music Ensemble 1 Unit
Formerly: MUP 42

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18 hours Laboratory
This course explores the performance of selected musical styles of different world cultures, such as Celtic, European, Asian, African, Latin American, Native American, Middle Eastern and combinations thereof. This class accommodates students of various instrumentation, music backgrounds and competence. Performance is not required, but is encouraged. The course may be taken four times for credit.

Specializations in Music (MUSM)

MUSM 110 The Business of Music 3 Units
Formerly: MUSM 50A

Prerequisite: ENGWR 50 with a grade of "C" or better; or placement through the assessment process.
54 hours Lecture
This course presents an overview of music in the marketplace, including the processes of promotion, publicity, artist management, talent agents, recording strategies, selling music through the internet, copyrights, and royalties.

MUSM 115 The Development and Management of an Independent Record Label 3 Units

Prerequisite: MUSM 110 with a grade of "C" or better.
54 hours Lecture
This course provides students with the opportunity and learning environment for participating in the creation and management of a music recording label to run within the college's "Diversity Records". Students work in project teams on all the different phases and aspects of such an endeavor, including legalities, copyrights, defining the roles of each in-house department, developing marketing strategies, CD production, artwork, liner notes, packaging, distribution, consumer surveys and accounting practices. This course may be taken two times for credit.

MUSM 306 Live Sound Reinforcement 3 Units
Formerly: MUSM 60

Prerequisite: ENGWR 50 with a grade of "C" or better; or placement through the assessment process.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The course presents an introduction to live sound mixing directed toward employment in the sound reinforcement industry and in operating sound systems in concert venues, churches and other fixed installations. Students will develop skills in operating mixing consoles, speaker placement, microphone techniques, room equalization, reverb, delay, and other effects (gate/compressor/limiters etc.). Students will learn practical techniques for getting the best concert sound. Either this course or MUSM 342 may be used as the prerequisite for MUSM 344.

MUSM 315 Careers in Music 1 Unit
Formerly: MUSM 52

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
The course introduces the student to business opportunities, responsibilities, and jobs related to music business, technology, and the field of education. Students will research areas of interest: recording and performance, manufacturing, wholesaling, retailing, publishing, copyrighting, agents and managers, songwriting, arranging, producing, critiquing, promotion, and education.

MUSM 320 Contemporary Songwriting 3 Units
Formerly: MUSM 51A

Prerequisite: ENGWR 50 with a grade of "C" or better; or placement through the assessment process.
Acceptable for credit: CSU
54 hours Lecture
This course covers the process of writing popular songs, including writing lyrics, designing instrumental and vocal arrangements, studying melodic and harmonic skills, learning popular song forms, analyzing musical styles, and creating lead sheets.

MUSM 321 Contemporary Songwriting 3 Units
Formerly: MUSM 51B

Prerequisite: MUSM 320 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers advanced processes of popular songwriting, including production and song evaluation, lyrical interpretation, publishing songs, and the songwriters' marketing system.

MUSM 322 Introduction to Film Music 3 Units
Prerequisite: MUFHL 401 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction into the different aspects of writing and producing music for film and television. Students will explore the mechanics of putting music to film and video, compositional techniques and the history of musical styles in film. Students will learn about finding work in this field and gain hands-on experience by completing a creative project.

MUSM 330 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62A

Prerequisite: None
Advisory: Successful completion of MUFHL 320 or MUIVI 345 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This is an introduction course to the fields of music technology and desktop music production. Students will utilize contemporary computer, software, and electronic instrument technology to create music of diverse styles and genres.

MUSM 331 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62B

Prerequisite: Successful completion of MUSM 330 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This course builds on skills learned in MUSM 330 and concentrates on more advanced electronic arranging techniques using computers, synthesizers and music notation software. Through a series of MIDI projects, students learn how various instruments are combined and mixed to create demo tapes in various styles of music.

MUSM 332 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62C

Prerequisite: Successful completion of MUSM 331 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This course builds on skills learned in MUSM 331 and concentrates on more advanced electronic arranging techniques using small MIDI recording studio. Through a series of MIDI projects, students learn electronic orchestration in various styles of music.

MUSM 333 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62D

Prerequisite: Successful completion of MUSM 332 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This course will teach students to create musical soundtracks at MIDI workstations for synchronization to video, presentation software and multimedia projects using film scoring techniques, editing software for soundtracks and the use of SMPTE time code to lock video editing machines and MIDI music compositions.

MUSM 340 Introduction To Desktop Audio 1 Unit
Formerly: MUSM 40

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course covers basic audio techniques used at computer workstations for the creation of music and dialog soundtracks for multimedia and the internet. Some of the areas covered include acoustics, microphone techniques, desktop multimedia, Internet and desktop video presentations.

MUSM 342 Recording Studio Techniques 3 Units
Formerly: MUSM 41A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to audio engineering in the recording studio, including multi-track recording, microphone selection and use, mixing console design, outboard signal processing, and multi-track demo production. MUSM 342 is the first semester course in the audio production degree program and may be taken twice for credit.

MUSM 344 Recording Studio Techniques 3 Units
Formerly: MUSM 41B

Prerequisite: MUSM 306 or 342 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This lecture and "hands-on" lab class builds on topics covered in MUSM 342 and MUSM 306. It uses 8-track recording techniques utilizing the Alesis ADAT Digital Recorder and the Mackie 8-bus Mixer. Basic, as well as advanced, microphone techniques, acoustics, recording studio design, mixing, monitoring, and audio mea-

surement are covered. Students have the opportunity to engineer live studio recording sessions during class. Two hours per week of outside lab work are required of students during the second half of the semester.

MUSM 350 Recording Studio Techniques 3 Units

Formerly: MUSM 41C

Prerequisite: MUSM 344 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a lecture/lab class in 24-track analog recording studio equipment and operations. Topics of study will be the operation of all equipment used in the SCC control room including the recording console, console automation, 24-track analog tape machine, and a wide variety of outboard equipment used in studio recording. Heavy emphasis is placed on studio signal flow.

MUSM 354 Recording Sessions Workshop1.5 Units

Formerly: MUSM 42

Prerequisite: MUSM 344 with a grade of "C" or better.
Corequisite: MUSM 350.
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This course provides practical hands-on recording session experience in many styles of music for second-year recording students in the commercial music program. Students complete a number of recording sessions under real world situations. Students take responsibility for all studio functions, such as engineer, producer, tape operator, production assistant, studio manager, and promotion staff. This course must be taken twice for the Audio Production degree. This course may be taken four times for credit.

MUSM 356 Pro Tools 101, Introduction to Pro Tools 1.5 Units

Prerequisite: MUSM 344 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture
This course is conducted in the Music Department's Mac computer lab. It is an introductory course to Digidesign's Pro Tools digital audio workstation software application. This is the first course offering as part of the College's Digidesign Certified Training Location alliance. This course fully trains students in the basic operation of Pro Tools LE. Students learn how to record, edit and mix music and MIDI within the Pro Tools application. This course may be taken twice for credit.

MUSM 362 Studio Mixdown Techniques 1.5 Units

Prerequisite: MUSM 350 and MUSM 354 with grades of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This course instructs students in the methods used to create professional multi-track mixes in the Music Department's 24-track control room. Advanced techniques in equalization, spatial placement, mixing console automation and reverberation are investigated. Student's lab work is regularly presented in class for critical evaluation. On a number of occasions outside professionals in the field are invited to speak and demonstrate their techniques to the class. A routine component of the class is exercises to develop "Critical Listening" skills in the students. The course may be taken two times for credit.

MUSM 366 Pro Tools 201, Advanced Pro Tools 1.5 Units

Prerequisite: MUSM 350, 354, and 356 with grades of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This is the second course offering as part of the SCC, Digidesign Certified Training Location alliance. Pro Tools 201 focuses on a foundation of skills needed to competently operate a Pro Tools TDM system in a professional environment. This course may be taken two times for credit. The third course needed to become a Certified Pro Tools Operator is not offered at SCC. The third course is offered at off-campus private learning centers.

MUSM 367 Audio for Video Post Production 1.5 Units

Prerequisite: MUSM 350, 354, and 356 with grades of "C" or better.
Corequisite: MUSM 366
Acceptable for credit: CSU
22 hours lecture, 15 hours laboratory
In MUSM 367 students learn Post Production, the art and science of adding sound to picture for television, feature films and commercials. Students work in the Pro Tools digital audio workstation environment. Projects include actual work from Post Production Studios submitted to the College. This course may be taken two times for credit.

MUSM 494 Topics in Specializations in Music .5-4 Units

This course is designed to give students an opportunity to study topics not included in current course offerings. This course may be repeated for credit providing there is no duplication of topics.

MUSM 498 Work Experience in Music Specializations in Music 1-4 Units

Formerly: MUSM 48

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
This course involves 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; and, 75 or 60 hours of related work experience for each additional unit. The course may be repeated when there is new or expanded learning on the job.

Nursing, Registered NURSE

Associate in Science Degree

Division of Science and Allied Health
Mary Turner, Dean
Mohr Hall 18
916-558-2271

Career Opportunities

This program prepares the student for employment as an entry-level staff nurse in hospitals, doctors' offices, skilled nursing or extended care facilities, surgery centers, ambulatory care settings, occupational health and other related agencies. Registered nurses provide nursing care to clients and groups of clients throughout the lifespan. They have many responsibilities from direct patient care to leadership roles, depending on the specific setting in which they are working. Program graduates are eligible to apply for the examination given by the National Council Licensure Examination for Registered Nurses.

Recommended High School Preparation

College preparatory courses including algebra, biology, chemistry and physiology. A chemistry course with laboratory experience in a college or university with a grade of "C" or better is required as prerequisite to the basic science courses.

Program Information

The Associate in Science Degree Program of Nursing at Sacramento City College is approved by the California Board of Registered Nursing. Students enrolled in this program are required to complete a combination of general education, science, and nursing education courses with related clinical experiences in cooperating local hospitals. The complete program is four semesters and two summer sessions in length-80-82 units total.

In addition to regular expenses such as enrollment fees, living costs, activity fees and books, nursing major students also have the expense of uniforms, equipment, professional liability insurance, graduation and licensing costs. They also have the responsibility for their physical examinations, required immunizations, background checks, and drug screens as well as transportation to and from clinical agencies for day and evening learning experiences. All enrolled students must have a current CPR Category "C" American Heart Association or Professional Rescuer American Red Cross Certificate.

Additional Information

Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program. For information call (916) 558-2271 or visit the SCC Web Site at http://www.scc.losrios.edu.

Enrollment Eligibility

Completion of BIOL 430 and BIOL 431 (Anatomy and Physiology) and BIOL 440 (Microbiology) with a cumulative GPA of 3.0 or better.

Completion of FCS 340 (Nutrition), FCS 324 (Human Development: A Life Span), PSYC 300 (General Principles), and ENGWR 300 with a cumulative GPA of 2.5 or better.

Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA degree or higher.

Enrollment Process:

1. Applications for enrollment and official transcripts supporting completion of prerequisite courses must be submitted to the Science and Allied Health Division by April 15th for the Fall semester enrollment and October 15th for the Spring semester enrollment.
2. Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not enrolled will be considered alternates. One-third of the class will be randomly selected from the eligible applicants who were alternates from the previous semester. Two-thirds of the class will be selected from all eligible applicants.
3. Students accepted to the nursing program will be required to undergo a criminal background check and an 8-panel drug screen test prior to their clinical laboratory experience.

Required Program

Nursing Courses	**Units**
First Semester -	
NURSE 405, Fundamentals of Health and Nursing Care	10.5
Second Semester-	
NURSE 415, Nursing and Health Maintenance Through Adult Years	11.0
Third Semester -	
NURSE 425, Nursing Complex Health Problems Through the Life Cycle	11.0
Fourth Semester -	
NURSE 435, Complex and Multiple Patient Care	10.0
NURSE 445, Clinical Seminar	0.5
Subtotal	**43**

General Education and Science Courses Required for the Nursing Program

	Units
ENGWR 300, College Composition	3
COMM 301, Introduction to Public Speaking (3) or COMM 331, Group Discussion (3)	3
PSYC 300, General Principles	3
SOC 300, Introductory Sociology (3) or ANTH 310, Cultural Anthropology (3)	3
FCS 324, Human Development	3
FCS 340, Nutrition	3
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
BIOL 440, General Microbiology	4
Subtotal	**32**
Total Program Units	**75**

All Nursing Students must meet graduation requirements for the Associate Degree which will be obtained by completing the required courses listed above plus the general education requirements.

NOTE:

1. Nursing courses must be taken in sequence.
2. Graduation requirements may be taken before entering the nursing program or concurrently. A grade of "C" or better is mandatory in each course in the Required Program above for progression in the program and for recommendation for application for the licensing examination. If the grade for the performance in the clinical area is unsatisfactory, the semester grade will be "F" irrespective of achievement on paper and pencil tests. Students who need tutoring may enroll in HSER 1000.
3. In order to obtain a R.N. License as a graduate, students must be degreed by the conclusion of NURSE 435.

Enrollment Options for Licensed Vocational Nurses

LVNs seeking entry are subject to space availability. These applicants have four options to prepare for the California licensure examination for Registered Nurses.

1. 30 unit option: The LVN must complete physiology and microbiology prior to entering the second year nursing courses, NURSE 425 and NURSE 435. This option does not lead to an Associate Degree in Nursing.
2. LVNs who seek advanced placement by challenge examinations (15 units are the maximum number allowed) in the ADN program must meet all program requirements for science, communication and Associate in Science Degree.
3. LVNs who wish to pursue the Associate in Science Degree in Nursing through the generic program must meet all requirements for admission.
4. LVNs seeking career mobility option must meet all the program requirements for science, communication and Associate in Science degree and complete NURSE 305, 425, 435, and 445.

Baccalaureate Degree

Since the various Schools of Nursing may change prerequisite and admissions procedures, it is important that nursing students who are contemplating transfer to a four-year institution consult with a counselor as early as possible.

Diploma RN Pursuing Associate Degree

Graduates of hospital schools of nursing who are currently licensed in California may earn an Associate in Science Degree at Sacramento City College. This R.N. will need to do the following:

1. Complete requirements for an Associate in Science Degree (consult with counselor on graduation requirements). At least 12 units must be completed at Sacramento City College to meet the residency requirement.
2. Petition for graduation. At this time the college will grant 30 units in nursing toward the major.

Interested registered nurses should contact the Science & Allied Health Division, Mohr Hall 18, (916) 558-2271.

Transfer

Transfer students must present evidence of comparable theory and clinical practice and are admitted on a space available basis.

Enrollment, Reentry or Transfer

Those students seeking enrollment, re-entry or transfer should contact the Director of the Associate Degree Nursing Program, Sacramento City College, 3835 Freeport Boulevard, Sacramento, CA 95822 or call (916) 558-2271.

Nursing (NURSE)
Associate Degree Nursing

NURSE 130 Role Development and Stress Reduction for the Health Care Student 1 Unit

Formerly: NURSE 372, 32

Prerequisite: None
18 hours Lecture
This course will focus on aspects of role transition from the student to health care professional. In an effort to prevent professional burnout, stress management and self-nurturing techniques will be highlighted, in addition to therapeutic interventions for problematic client behaviors.

NURSE 305 Transition to Associate Degree Nursing 4 Units

Formerly: NURSE 23

Prerequisite: BIOL 430, BIOL 431, and BIOL 440 with a cumulative GPA of 3.0; PSYC 300, FCS 340, FCS 324; ENGWR 300, COMM 301 or 331, and SOC 300 or ANTH 310 with a cumulative GPA of 2.5; possess a current California license as a Licensed Vocational Nurse.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
The course is designed for the qualified Licensed Vocational Nurse who is admitted for advanced placement into the second year of the Associate Degree Nursing Program. Emphasis of the course is on assessment of knowledge base and clinical skills through individual assessment. A profile will be developed for each student that will focus on identification of his/her needs as a learner. Students will be given an orientation to the generic program and provided with suggestions on how to adapt to the student nurses' role. Content includes the nursing process, pathophysiology, cultural diversity, communication skills, and role change. The student will be provided with the opportunity to implement nursing care utilizing scientific principles and nursing concepts in an appropriate clinical setting.

NURSE 315 Pharmacology and Implications for Nursing 2 Units

Formerly: NURSE 11

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This course will detail the principles of pharmacology, pharmacokinetics, pharmacodynamics, pharmacotherapeutics and adverse drug reactions. The major drug classes and related nursing implications for people receiving drugs that affect the body systems, prevent and treat pain, infections, malignant neoplasms, and seizure disorders will be discussed. In addition, drugs that alter psychogenic behavior and sleep patterns will be presented.

NURSE 325 Medical Dosage Calculations 1 Unit

Formerly: NURSE 14A

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course prepares students to accurately calculate oral and parenteral drug dosages for medication administration. Students will learn three systems of measurement and conversion from one system to another. Basic flow rates of IV fluids will be covered. Course content will also include: 1) review of basic arithmetic operations used in dosage calculations; 2) interpretation of drug labels; 3) common medical abbreviations used in dosage calculations; 4) use of the following methods: basic formulas, ratio and proportion, fractional equation, and dimensional analysis in dosage calculations. Calculators will not be used in this course.

NURSE 330 Medical Terminology in Spanish (Same as AH 312) 1 Unit

Formerly: NURSE 12

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course is designed for medical personnel and Allied Health students to improve communication and health care for Spanish speaking patients. Basic terms, useful phrases, role-playing will contribute to course content. Spanish medical terminology will be applied throughout the course. Knowledge of Spanish is not a prerequisite.

NURSE 340 Preventative and Complementary Health Care Modalities 1.5 Units

Formerly: NURSE 15

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This 1.5 unit course is an introduction to preventive and complementary health care modalities/techniques. Course content will include exploring lifestyle changes that will help prevent disease and improve the quality of life. Alternative health care modalities such as biofeedback, chiropractic and meditation will be introduced.

NURSE 350 Pathophysiology as it Relates to Nursing Practice, Part I 2 Units

Formerly: NURSE 24

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This two-unit course explores the response of the human body to illness and injury. In this course, the mechanisms of disease and defense, disturbances of respiration and circulation will be covered. Through the use of lecture/discussion and a case studies approach, the student will be assisted to apply this knowledge toward planning more effective nursing care. This course is designed for people in the nursing/allied health related fields.

NURSE 351 Pathophysiology as it Relates to Nursing Practice, Part 2 — 2 Units

Formerly: NURSE 25

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This two-unit course explores the response of the human body to illness and injury. In this course, the disorders of metabolic, endocrine and reproductive function and disruption of renal, neuromuscular and structural integrity will be covered. Through the use of lecture/discussion and a case studies approach, the student will be assisted to apply this knowledge toward planning more effective nursing care. This course is designed for people in the nursing/allied health related fields.

NURSE 370 Addiction Awareness — 1 Unit

Formerly: NURSE 31

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course will describe the dynamics, behavioral changes, medical consequences and social problems that result from substance abuse, with a special emphasis on impaired professionals.

NURSE 380 Preparing for a Nursing Career — 1 Unit

Formerly: NURSE 120, 90

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course presents the role of the Associate Degree Nurse and the Vocational Nurse within various settings in today's health care systems. Students assess their own learning styles and compare their abilities to those required in nursing; critical thinking is applied to several scenarios. Written, verbal and math skills are emphasized along with learning resources, study strategies, legal and ethical aspects of practice, and stress management. The rigors of being a nursing student and graduate nurse are presented along with information on the current job market and opportunities for advancement in nursing.

NURSE 405 Fundamentals of Health and Nursing Care — 10.5 Units

Formerly: NURSE 10

Prerequisite: Enrollment in the Associate Degree Program of Nursing and completion of BIOL 430, 431, and 440 with grades of "C" or better, and with a cumulative GPA of 3.0 or better. Completion of FCS 340, FCS 324, ENGWR 300, and PSYC 300 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses; completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher
Advisory: NURSE 120.
Acceptable for credit: CSU
72 hours Lecture; 352 hours Laboratory
This course utilizes the conceptual framework of the curriculum (Basic Human Needs, Life-Cycle Development, Health-Illness, Significant Health Problems, Stress Adaptation) to provide the foundation for the following three semesters of the program. It includes an introduction to nursing, its evolution, present trends and issues, legal aspects, and concepts underlying today's practice. Basic principles of delegation, management and home care are introduced and integrated into appropriate content. The theory and related clinical experiences prepare the student to utilize critical thinking and the nursing process in providing direct patient care with a focus on basic human needs. The student learns to use standard nursing measures to support patient's adaptive mechanisms for attaining and maintaining wellness during early, middle and late adulthood. The sub-concepts integrated throughout the course are personal hygiene, nutrition, communications, human sexuality, cultural diversity, legal/ethical aspects, pharmacology and pathophysiology. Emphasis is given to the promotion of health in the elderly and in persons with varying degrees of immobility.

NURSE 415 Nursing and Health Maintenance Through Adult Years — 11 Units

Formerly: NURSE 20

Prerequisite: Completion of NURSE 405 and COMM 301 or COMM 331 with grades of "C" or better.
Acceptable for credit: CSU
90 hours Lecture; 324 hours Laboratory
This course presents theory and practice related to helping patients cope with common physiological stressors. Content focuses on application of principles in perinatal nursing and common medical-surgical health problems related to the adult and older adult in the acute care, home care, rehabilitation, and community settings. Theory related to personal hygiene, nutrition, communication, pathophysiology, pharmacology, and common health resources is integrated throughout the course. Learning experiences provide students with the opportunity to acquire new clinical skills and apply previously learned principles and concepts in a variety of clinical settings. There is emphasis on the utilization of the nursing process, management, delegation and critical thinking skills to meet basic human needs, promote health and prevent illness.

NURSE 425 Nursing Complex Health Problems Throughout the Life Cycle — 11 Units

Formerly: NURSE 30

Prerequisite: NURSE 415 with a grade of "C" or better; Completion of SOC 300 or ANTH 310 with a grade of "C" or better.
Acceptable for credit: CSU
90 hours Lecture; 324 hours Laboratory
This course emphasizes theory and clinical experiences related to helping patients/families adapt to pathophysiological and pathopsychological stressors in addition to assisting patients of all ages in meeting their health promotion needs. Content focuses on the application of medical/surgical principles for adult/pediatric patients and application of psychiatric nursing principles for adult/pediatric mental health patients. The sub-concepts integrated throughout the course include pathophysiology, psychpathophysiology, pharmacology, mental health disorders, adult acute/chronic illnesses and pediatric acute/chronic illnesses, family/patient centered care, health promotion, illness prevention, community health, end-of-life and palliative care, rehabilitative concepts, and evaluation of patient centered nursing outcomes. Learning experiences in the classroom and clinical settings provide students the opportunity to utilize the nursing process as well as organizational, decision-making, critical thinking, interdisciplinary communication, and delegation skills when helping patients of all ages attain optimal physical and mental health.

NURSE 435 Complex and Multiple Patient Care 10 Units

Formerly: NURSE 40

Prerequisite: Completion of NURSE 425 with a grade of "C" or better.
Corequisite: NURSE 445.
Acceptable for credit: CSU
72 hours Lecture; 324 hours Laboratory
The last semester course focuses on theory and practice related to multiple patient assignments and to caring for patients with complex health problems. The learning experiences provide the student with the opportunity to continue developing skills, emphasizing organization, priority setting, decision making, critical thinking, leadership, management, delegating, ethical and legal personal accountability. Clinical experiences may include, but are not limited to, acute, subacute, extended care, home health care, and hospice.

NURSE 445 Clinical Seminar .5 Unit

Formerly: NURSE 41

Prerequisite: Completion of NURSE 425 with a grade of "C" or better
Corequisite: Concurrent enrollment in NURSE 435.
Acceptable for credit: CSU
27 hours Laboratory
Using a variety of teaching methods including Computer Assisted Instruction (CAI), this course is designed to provide supplemental clinical information related to current nursing practice and health care issues.

Nursing, Vocational V N
(LVN Preparation)

Associate in Science Degree

Career Certificate

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities
This program prepares the student for employment as a licensed vocational nurse. The LVN may work in hospitals, doctors' offices, ambulatory care settings, skilled nursing facilities, or extended care facilities to provide basic patient care to clients of all ages under the supervision and direction of physicians or registered nurses. The specific procedures performed vary greatly depending on the work setting.

Recommended High School Preparation
Classes in biology, mathematics, and English.

Program Information
The Vocational Nursing Program at Sacramento City College is approved by the California Board of Vocational Nursing and Psychiatric Technicians. Upon successful completion of the three-semester, 53-unit program the student is eligible to apply for the National Licensing Examination to qualify as a Licensed Vocational Nurse. Students enrolled in this program are required to complete nursing support and nursing education courses with related clinical experiences in cooperating local hospitals. The program prepares for employment and also leads toward the Associate in Science Degree when additional requirements are met. In addition to regular expenses such as enrollment fees, living costs, activity fees, and books, vocational nursing students have the expense of uniforms, professional liability insurance, physical examinations, required immunizations, background checks, drug screens, graduation, and licensing costs.

Students also have the responsibility of their physical examination and required immunizations as well as transportation to and from clinical agencies for day and evening learning experiences. All students must have a current CPR category "C" American Heart Association or Professional Rescuer American Red Cross Certificate.

Additional Information
Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program. For information call (916) 558-2271 or visit the SCC Web Site at http://www.scc.losrios.edu.

Enrollment Eligibility

- Completion of BIOL 100 (Introduction to Concepts of Human Anatomy and Physiology) with a GPA of 3.0.
- Completion of FCS 324, Human Development: A Life Span, (same as PSYC 370), and FCS 340 (Nutrition), and AH 110 (Medical Language for Health-Care Providers) with a cumulative GPA of 2.5 in these three (3) courses.
- The Board of Vocational Nursing and Psychiatric Technicians requires a five-year recency for the prerequisite courses.
- Completion of ENGRD 11 or eligibility for ENGRD 110 as determined by the reading assessment process for all applicants who do not have an Associate in Arts degree or higher.
- Be a high school graduate or pass the GED.

Enrollment Process

1. Applications for enrollment and official transcripts supporting completion of prerequisite courses must be submitted to the Science and Allied Health Division by April 15th for the Fall semester enrollment.
2. Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not enrolled will be considered alternates. One-third of the class will be randomly selected from the eligible applicants who were alternates from the previous semester. Two-thirds of the class will be selected from all eligible applicants.

CELEBRATING 90 YEARS

3. Students accepted to the nursing program will be required to undergo a criminal background check and an 8-panel drug screen test prior to their clinical laboratory experience.

NOTE: Vocational Nursing courses must be taken in sequence.

Prerequisite Courses	Units
BIOL 100, Introduction to Concepts of Human Anatomy and Physiology	3
FCS 340, Nutrition	3
FCS 324, Human Development: A Life Span (Same as PSYC 370)	3
AH 110, Medical Language for Health-Care Providers	3
Prerequisite Courses Units	**12**

Required Program	Units
VN 120, Meeting Adult Basic Health Needs	14
VN 130, Meeting Health Needs of All Age Groups	12
VN 140, Meeting Complex Adult Health Needs	12
Subtotal Units	**38**
Total Units:	**50**

Required General Education

PSYC 300, General Principles	3
Total Units:	**53**

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completing the required courses listed above, plus the general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Admission, Reentry or Transfer
Contact the Director of Vocational Nursing, Sacramento City College, 3835 Freeport Boulevard, Sacramento, CA 95822 or call (916) 558-2271.

Vocational Nursing (VN)

VN 110 Nurse Assistant and Home Health Aid: Theory and Practice — 6 Units

Formerly: VN 50

Prerequisite: None
70 hours Lecture; 120 hours Laboratory
A pre-certification training program for nurse assistants and the home health aid. Classroom lectures including basic nursing skills, patient safety and rights, and the social and psychological aspects of patients. Supervise clinical practice in the college lab and in the long-term care facility.

VN 120 Meeting Adult Basic Health Needs — 14 Units

Formerly: VN 53

Prerequisite: Enrollment in the Vocational Nursing Program and completion of BIOL 100 with a grade of "B" or better; completion of AH 110, FCS 340, and FCS 324 with grades of "C" or better and a cumulative GPA of 2.5 in these three (3) courses; completion of ENGRD 11 or eligibility of ENGRD 110 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
144 hours Lecture; 324 hours Laboratory
This course is an orientation to Vocational Nursing and role of the Vocational Nurse within the health care team, including historical, ethical, and legal aspects. Theory and practice introduces the nursing process and related concepts (basic human needs, life-cycle development, health-illness continuum, and major health problems related to cardiovascular/respiratory nutrition-elimination, mobility (activity and exercise), hormonal disturbances, and surgical interventions. Fundamental skills and responsibilities involved in patient care, including medication administration, principles of communication, health teaching, cultural diversity, and human sexuality are included. Emphasis is on assessment of patient needs and basic nursing interventions for adults of all ages.

VN 130 Meeting Health Needs of All Age Groups — 12 Units

Formerly: VN 60

Prerequisite: Completion of VN 120 with a grade of "C" or better.
108 hours Lecture; 324 hours Laboratory
Students apply theory in utilizing the nursing process to meet the needs of: 1) adult patients with major health problems related to more complex regulatory, cardio-vascular/respiratory, and reproductive disturbances; 2) mothers during the maternity cycle and newborns; 3) hospitalized children of various ages. Emphasis is on increasing independence in the implementation of care plans. Concepts and principles related to legal and ethical aspects, communications, health teaching, cultural diversity and human sexuality are applied in a variety of clinical settings and with patients of all ages.

VN 140 Meeting Complex Adult Health Needs 12 Units

Formerly: VN 70

Prerequisite: Completion of VN 130 with a grade of "C" or better. Corequisite: PSYC 300.
108 hours Lecture; 324 hours Laboratory
Students apply course theory in utilizing the nursing process to meet the needs of adult patients of all ages with major health problems related to more complex regulatory, elimination, cardiovascular/respiratory and nutritional disorders. Emphasis is on fulfilling all steps of the nursing process. Principles related to legal and bio-ethical aspects, communication, health teaching, cultural diversity and human sexuality are included. Management principles, the Vocational Nursing Practice Act, professional organizations, resume writing and job search are presented.

VN 150 Intravenous Therapy and Blood Withdrawal 1.5 Units

Formerly: VN 71

Prerequisite: VN 130 or NURSE 415 or equivalent courses.
27 hours Lecture; 9 hours Laboratory
This course will provide the student with the knowledge and skills to start and superimpose intravenous fluids and withdraw blood. The course meets the requirements of the Board of Vocational Nursing and Psychiatric Technicians for Licensed Vocational Nurses to become certified in IV therapy and blood withdrawal.

Occupational Therapy Assistant
O T A

Associate in Science Degree

Division of Science and Allied Health
Mary Turner, Dean
Mohr Hall 18
916-558-2271

Career Opportunities

This program prepares the student for employment as an occupational therapy assistant. Occupational therapy assistants work with people of all ages who, because of physical, cognitive, developmental, social, or emotional problems, need specialized assistance in order to lead an independent, productive, and satisfying life. They may work in a wide variety of settings including hospitals, rehabilitation centers, skills nursing facilities, home health agencies, school systems, psychiatric hospitals and private practice outpatient clinics.

Program Information

An Associate in Science Degree is required for the Occupational Therapy Assistant Program. The Degree includes Occupational Therapy Assistant courses (42 units), Allied Health courses (5 units), and specific general education and science courses required for the program (19-26 units). Students must also take additional courses to meet graduation requirements of the College. The Allied Health and OTA courses are offered Monday through Thursday in the evening and on Saturdays; and are scheduled sequentially for four semesters and two summer sessions. The shortest time to complete all requirements of the program would be two years and two summer sessions after being admitted. Supervised clinical work experiences are integrated throughout the program. The introduction to clinical practice courses (OTA 132 and 142) each require 40 hours of fieldwork. There are two required nine- week, full-time fieldwork experiences that take place during the student's final semester. Fieldwork requires completion of a physical examination, immunizations, a TB test and current CPR certification for health personnel (level C). Background checks and drug screens may also be required.

Program Costs

In addition to college enrollment fees, other costs include: books and supplies ($700); physical examinations and immunizations ($200); malpractice insurance ($40); and fee for certification test ($550). Students must also plan for travel costs to and from the clinical facilities, many of which are outside the Sacramento area. Some students may need to arrange for housing during the full time fieldwork. Students in the OTA Program will be required to practice skills on each other in a laboratory setting with instructor supervision. Courses in the OTA Program may include discussion of issues such as race, religion, sexuality, disability, and gender as related to the course content.

Accreditation/Certification

The Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-2682.

Certification/Licensure

Graduates of the program are eligible to take the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. Graduates with a felonly conviction may not be eligible to take the national certification examination.

Additional Information

Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program. For information call (916) 558-2271 or visit the SCC Web Site at http://www.scc.losrios.edu.

Enrollment Eligibility

Completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses and ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an Associate degree or higher. BIOL 100, Anatomy and

Physiology, or BIOL 430 and 431, or equivalent courses must be completed within the last ten (10) years.

Enrollment Process:

1. Students applying with courses in progress must indicate so on the application. Enrollment in the program will be dependent upon submission of transcripts verifying successful completion of prerequisite courses.
2. All applications for enrollment and official transcripts must be submitted to the Science & Allied Health Division by October 15th to be considered for enrollment for the spring semester.
3. Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not enrolled will be considered alternates. Each year one-third of the class will be randomly selected from the previous year's alternates who have reapplied. Two-thirds of the class will be randomly selected from all eligible applicants.
4. After all eligible applicants have been offered admission, eligible applicants applying after October 15 will be considered.
5. Transfer students: Students from other accredited OTA programs may apply to transfer to the Sacramento City College OTA Program. Enrollment depends upon evidence of completion of equivalent academic and clinical coursework and upon space availability in the program.

Required Program **Units**

OTA 100, Introduction to Occupational Therapy 1
OTA 102, Developmental Life Tasks (3)
or PSYC 370, Human Development: A Life Span (3)
or FCS 324, Human Development: A Life Span (3) 3
BIOL 100, Introduction to Concepts of Human Anatomy and Physiology (3) .....
or BIOL 430, Anatomy and Physiology (5)
and BIOL 431, Anatomy and Physiology (5) ..... 3-10[1]
AH 110, Medical Language for Health-Care Providers 3
ENGRD 110, Comprehension Strategies and Vocabulary Development For College ..... 3[2]

Occupational Therapy Assistant Courses:
OTA 110, Functional Biomechanics for the OTA 3
OTA 111, Functional Biomechanics Lab for the OTA 1
OTA 120, Fundamentals of Occupational Therapy Assistant Practice 3
OTA 131, Occupational Therapy Theory and Process in Psychosocial Dysfunction 5
OTA 132, Introduction to Clinical Practice in Psychosocial Dysfunction 1
OTA 140, Theoretical Foundations of Physical Dysfunction 3
OTA 141, Occupational Therapy Process in Physical Dysfunction 4
OTA 142, Introduction to Clinical Practice in Physical Dysfunction 1
OTA 150, Occupational Therapy Process and Practice in Developmental Disabilities and Pediatric Conditions 2
OTA 121, Contemporary Models of Practice in Occupational Therapy 3
OTA 160, Field Work Level II for the Occupational Therapy Assistant 6
OTA 161, Field Work Level II for the Occupational Therapy Assistant 6

Allied Health Course:

AH 106, Communication for Allied Health Careers 2

General Education and Science Courses Required for the OTA Program:

ENGWR 300, College Composition (3)
or ENGWR 100, College Writing (3) 3
FCS 340, Nutrition 3
COMM 301, Introduction to Public Speaking (3)
or COMM 371, Voice and Diction (3) 3
CISC 300, Computer Familiarization 1
PSYC 300, General Principles 3
SOC 300, Introductory Sociology (3)
or ANTH 310, Cultural Anthropology (3) 3

Total Units Required **69 - 76**

[1] *Ten year recency required.*
[2] *ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an Associate Degree or higher.*
[3] *Ten year recency required.*

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program plus the general education requirements. See SCC graduation requirements.

Occupational Therapy Assistant (OTA)

OTA 100 Introduction to Occupational Therapy 1 Unit

Formerly: OTA 50

Prerequisite: None
18 hours Lecture
This course has been designed to provide the student with information needed to determine if occupational therapy is a suitable career option. The student is introduced to the field of occupational therapy and the role of the Occupational Therapy Assistant. This course will explain occupational therapy and its history, the types of settings in which occupational therapy practitioners work, and how purposeful activity is used as a treatment modality. Aspects involved in being an occupational therapy practitioner, such as involvement in professional organizations, standards, regulations and ethics, are also discussed. An observation at an occupational therapy clinic is required.

OTA 102 Developmental Life Tasks 3 Units

Formerly: OTA 51

Prerequisite: None
54 hours Lecture
This course explores theories of human development as they apply to the life span and variances in development that interfere with human behavior.

OTA 110 Functional Biomechanics for the OTA 3 Units

Formerly: OTA 52

Prerequisite: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses. Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
Corequisite: OTA 111.
54 hours Lecture
This course covers components of human movement, including joint structure and function, muscle action, motor and reflex development, balance and sensory influence. Students will learn the importance of movement to function and occupational performance across the lifespan.

OTA 111 Functional Biomechanics Lab for the OTA 1 Unit

Formerly: OTA 52L

Prerequisites/Corequisites: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses. Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
54 hours Laboratory
This course uses a laboratory problem solving approach in which students experience functional human movement across the lifespan. Through hands-on analysis of human movement students learn about biomechanical principles, muscle function, joint range of motion, the influence of motor and reflex development, balance, and sensory influences. Students also learn how to use proper body mechanics, and perform manual muscle testing, goniometry measurement, and biomechanical activity analysis.

OTA 120 Fundamentals of Occupational Therapy Assistant Practice 3 Units

Formerly: OTA 53

Prerequisites/Corequisites: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses. Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
54 hours Lecture
In this course, students learn the fundamental of practice in Occupational Therapy. Course content includes departmental operations, role delineation, supervision requirements, regulations and service management functions such as documentation, reimbursement, and quality assurance. Management of activity programs is examined. Professional attitudes and behaviors are emphasized.

OTA 121 Contemporary Models of Practice in Occupational Therapy 3 Units

Formerly: OTA 59

Prerequisite: OTA 131 and 132 with grades of "C" or better.
54 hours Lecture
Significant changes in health care have resulted in a move away from the medical/institutional models to community-based models. This course will provide the occupational therapy assistant student with a foundation of knowledge which will allow the student to pursue practice opportunities in community-based programs. In this course, the student will gain an understanding of the roles and responsibilities of the occupational therapy assistant in a community-based setting. Through a capstone project, the student will learn how to develop a needs assessment for a community-based program, develop goals and objectives for the program, and design a plan for carrying out the goals and measuring the outcomes of the program. Students may be required to participate in field trips to community-based programs as a part of the course.

OTA 131 Occupational Therapy Theory and Process in Psychosocial Dysfunction 5 Units

Formerly: OTA 55

Prerequisite: Completion of OTA 110, 111, 120, AH 106, PSYC 300 or 350 (within the last 10 years), and ENGWR 300 or ENGWR 100, with grades of "C" or better.
Corequisite: OTA 132.
72 hours Lecture; 54 hours Laboratory
This course will introduce the pathological conditions most commonly encountered by the Certified Occupational Therapy Assistant (COTA) in psychosocial settings. The course is designed to prepare the student to apply theoretical approaches to the treatment of patients with psychosocial disabilities. This course examines the role of the COTA in working with individuals across the lifespan who have mental health disorders. Students will learn how to identify and utilize assessment tools and therapeutic interventions to maximize client's psychosocial occupational performance components.

OTA 132 Introduction to Clinical Practice in Psychosocial Dysfunction 1 Unit

Formerly: OTA 55P

Prerequisite: Completion of OTA 110/111, AH 106, PSYC 300 or 350 and ENGWR 300 or ENGWR 100 with grades of "C" or better.
Corequisite: OTA 131.
54 hours Laboratory
This course provides an opportunity for students to begin to integrate academic learning with clinical practice. Students are expected to function as participant observers in the clinical setting. Clinical practice experiences at Level I are structured around the assignments provided by the course instructors with emphasis on observation of patients/clients with a variety of psychosocial diagnoses and degrees of disability; written and verbal communication; professional behavior; and individual/group participation with patients/clients. Students are encouraged to identify their own personal reactions and feelings in relation to the clinical situation; maintain a written log and use seminar time to discuss issues not addressed during the clinical experience.

OTA 140 Theoretical Foundations of Physical Dysfunction 3 Units

Formerly: OTA 56

Prerequisite: Completion of OTA 120 with a grade of "C" or better.
54 hours Lecture
This course will introduce the student to the neurological, orthopedic and medical disorders most commonly seen in physical disabilities. The course prepares the student to apply theoretical treatment approaches to enhance occupational performance of persons with these types of physical conditions.

OTA 141 Occupational Therapy Process in Physical Dysfunction 4 Units

Formerly: OTA 57

Prerequisite: OTA 131 and 132 with grades of "C" or better.
Corequisite: OTA 142.
54 hours Lecture; 54 hours Laboratory
The course focuses on occupational therapy evaluation and treatment techniques for orthopedic, neurological or medical conditions. Emphasis is made on the therapeutic use of activities and media to promote the occupational role and health of the individual across his or her life span.

OTA 142 Introduction to Clinical Practice in Physical Dysfunction 1 Unit

Formerly: OTA 57P

Prerequisite: OTA 131 and 132 with grades of "C" or better.
Corequisite: OTA 141.
54 hours Laboratory
This course provides an opportunity for students to begin to integrate academic learning with clinical practice. Students are expected to function as participant observers in the clinical setting. Clinical practice experiences are structured around the assignments provided by the course instructors with emphasis on observation of patients/clients with a variety of physical diagnoses and degrees of disability; written and verbal communication; professional behavior; and individual/group participation with patients/clients. Students are encouraged to identify their own personal reactions and feelings in relation to the clinical situation; maintain a written log and use seminar time to discuss issues not addressed during the clinical experience.

OTA 150 Occupational Therapy Process and Practice in Developmental Disabilities and Pediatric Conditions 2 Units

Formerly: OTA 58

Prerequisite: OTA 110, OTA 111, and OTA 120 with grades of "C" or better.
27 hours Lecture; 27 hours Laboratory
This course introduces developmental disabilities and common conditions of children referred for occupational therapy treatment. The scope of occupational therapy, the types of practice settings, and the role of the occupational therapy assistant in pediatrics and developmental disabilities are also covered. Common frames of references, evaluation tools and procedures, and intervention strategies used in pediatric occupational therapy practice are presented. This course also includes 12 hours of fieldwork observation at Level I in various pediatric practice settings.

OTA 160 Field Work Level II for the Occupational Therapy Assistant 6 Units

Formerly: OTA 98A

Prerequisite: OTA 131 and 132 with grades of "C" or better. 360 hours Laboratory

This course concentrates on the application of knowledge and skills for the occupational therapy assistant student. The student is placed in a supervised fieldwork setting, which provides the student with the opportunity for carrying out professional responsibility with appropriate supervision and professional role modeling. Students complete 360 hours of supervised fieldwork in a facility working with clients/patients with physical and/or psychosocial dysfunction. Students will be placed in different fieldwork sites for OTA 160 and OTA 161 in order to be exposed to a broad variety of clinical settings. Regularly scheduled seminars with the academic instructor and peers, in which attendance is mandatory, are included as a part of the 360 hours.

OTA 161 Field Work Level II for the Occupational Therapy Assistant 6 Units

Formerly: OTA 98B

Prerequisite: OTA 121, 141, and 142 with grades of "C" or better. 360 hours Laboratory

This course concentrates on the application of knowledge and skills for the occupational therapy assistant student. The student is placed in a supervised fieldwork setting, which provides the student with the opportunity for carrying out professional responsibility with appropriate supervision and professional role modeling. Students complete 360 hours of supervised fieldwork in a facility working with clients/patients with physical and/or psychosocial dysfunction. Students will be placed in different fieldwork sites for OTA 160 and OTA 161 in order to be exposed to a broad variety of clinical settings. Regularly scheduled seminars with the academic instructor and peers, in which attendance is mandatory, are included as a part of the 360 hours.

Philosophy PHIL

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Philosophy examines basic questions regarding such topics as the nature of truth, sound reasoning, goodness, beauty, God, justice, and reality. Philosophy courses apply the insights of different cultural traditions to contemporary life. Diligent study of philosophy will improve one's critical thinking skills.

Career Opportunities

Teaching; Medical Ethics; Public Service; Religious Service; Publishing; Social Work.

PHIL 300 Introduction to Philosophy 3 Units

Formerly: PHIL 6

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture

This course will apply critical thinking techniques of analysis and evaluation to the methods, arguments and positions of several philosophers on topics such as human freedom, the belief in God, the nature and limits of scientific knowledge, natural rights, the nature of the State, and the basis of moral judgments.

PHIL 302 World Philosophy 3 Units

Formerly: PHIL 24

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture

This course is a critical analysis of major philosophical beliefs, values, and social and political institutions of the peoples of Asia, Africa, the Middle East, Latin America, Native America and Europe.

PHIL 310 Introduction to Ethics 3 Units

Formerly: PHIL 5

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture

This course introduces the student to classical and contemporary ethical theories and their application to a variety of contemporary moral issues such as capital punishment, animal rights, affirmative action, abortion, euthanasia, torture, and same-sex marriage.

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PHIL 317 Global Ethics and Environmental Ecology 3 Units

Formerly: PHIL 22

Prerequisite: None
Advisory: Successful completion of ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a historical study of diverse philosophies about our place in nature and our use of natural resources. Ideas will be drawn from numerous ancient and contemporary sources, both religious and scientific, which address the question of what ethical guidelines might be prudent and practical for dealing with our current environmentally-linked global problems. The nature of scientific activity and its role in understanding and mitigating these problems will also be discussed. These problems include pollution, ecosystem destruction, loss of fertile soil caused by non-sustainable farming practices.

PHIL 320 Logic and Critical Reasoning 3 Units

Formerly: PHIL 4

Prerequisite: None
General Education: AA/AS Area D2
Acceptable for credit: UC (PHIL 320 or 322, maximum one course)/ CSU
54 hours Lecture
Logic and critical reasoning provides instruction on the tools needed to be an effective rational person. The student will learn to identify premises and conclusions in arguments and to identify cogent inductive arguments and valid deductive arguments. Special emphasis is placed on recognizing and overcoming perceptual and cognitive errors and biases that hinder the ability to think critically. The standards of critical thinking and logic will be discussed in terms of their historical development and their cultural impact on society.

PHIL 322 Critical Thinking About the Paranormal 3 units

Prerequisite: ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC (PHIL 320 or 322, maximum one course)/ CSU
54 hours lecture
The primary emphasis of this course is on learning to evaluate the experience of paranormal phenomena using fundamental principles of critical thinking and logical analysis. The need for scientific experiments testing paranormal claims is explained, as are the logical requirements and limitations of such experiments and the inherent difficulties of meeting those requirements. Students will write a minimum of 8,000 words divided among at least five essays, all of which require research.

PHIL 325 Symbolic Logic 3 Units

Formerly: PHIL 12

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area D2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces the student to logical symbolism, truth tables, and methods of formal analysis and proof in propositional and predicate logic. It is recommended for students of the sciences, computer programming, mathematics, and philosophy.

PHIL 330 History of Classical Philosophy 3 Units

Formerly: PHIL 20

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (PHIL 330 or 480, maximum one course)/ CSU
54 hours Lecture
This course is a study of the origin and development of Western philosophy from the period of the ancient Greeks and Romans, and continuing through the Middle Ages. This course is recommended for all philosophy, history and humanities majors.

PHIL 331 History of Modern Philosophy 3 Units

Formerly: PHIL 21

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (PHIL 331 or 481, maximum one course)/ CSU
54 hours Lecture
This course examines, analyzes, and critically evaluates philosophical works essential to the development of Western philosophy from Bacon to Kant. The course is recommended for all philosophy, history and humanities majors.

PHIL 333 J.R.R. Tolkien, C.S. Lewis, Charles Williams and Romantic Idealism and the Meaning of Life 3 Units

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course focuses on the philosophy of literature. J.R.R. Tolkien, C.S. Lewis, Charles Williams, and the medieval grail myths will be the literary basis for philosophic issues and discussion. Plato, neoplatonism, and Romantic Idealism will be the basis for concepts in metaphysics and aesthetics. This will include concepts of myth, art, Tibetan metaphysics/magic, and fairy tales, as well as concepts of beauty and eros.

PHIL 338 Contemporary Philosophy 3 Units

Formerly: PHIL 8

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is recommended for students interested in an introduction to philosophy with a focus on existential concerns such as alienation, authenticity and anxiety, and on problems in the philosophy of language such as the meaning of "meaning" and language games.

PHIL 352 Introduction to World Religions 3 Units

Formerly: PHIL 9

Prerequisite: None
General Education: AA/AS Areas C, F.

Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introductory survey of selected world religions. Emphasis is on the origins, beliefs, and interpretations of philosophical concepts underlying Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, Islam, African, and Native American religions. Major topics include ideas of revelation, mysticism, religious myths, worship, and ritual.

PHIL 353 Religions of the Far East 3 Units

Formerly: PHIL 13

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the major religions of the Far East: Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, and Shintoism. The origins, myths, basic teachings, development, and modern forms of each religion will be surveyed through comparison and contrast with each other in order to clarify religious concepts and practices. The influences of these religions on Western cultures will be examined.

PHIL 368 Law, Justice, and Punishment 3 Units

Formerly: PHIL 23

Prerequisite: None
General Education: AA/AS Areas B2, C
Acceptable for credit: UC (PHIL 368 or 482 or BUS 345, maximum one course)/CSU
54 hours Lecture
This course introduces the student to the historical, cultural, legal, and philosophical development in American culture of (1) abstract principles such as rights, justice, the nature of law, freedom of speech, equal protection of the law, and following precedent; and (2) theoretical issues such as statutory and constitutional interpretation, utilitarian and retributive theories of punishment, and justice as fairness; and (3) practices such as the exclusionary rule, plea bargaining, and the insanity defense.

PHIL 480 History of Classical Philosophy - Honors 3 Units

Formerly: PHIL 20H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area C
Acceptable for credit: UC (PHIL 330 or 480, maximum one course)/CSU
54 hours Lecture
This course is a study of the origin and development of Western philosophy from the period of the ancient Greek philosophers and continuing through the Hellenistic and Roman philosophers. The course is recommended for all philosophy, history, and humanities majors. This honors section uses an intensive instructional methodology designed to challenge motivated students.

PHIL 481 History of Modern Philosophy - Honors 3 Units

Formerly: PHIL 21H

Prerequisite: None
Enrollment Limitation: Eligibility for the Honors program.
General Education: AA/AS Area C
Acceptable for credit: UC (PHIL 331 or 481, maximum one course)/CSU
54 hours Lecture
This course examines, analyzes, and critically evaluates key philosophical works from Descartes to Kant.
The honors section uses an intensive, seminar style, instructional methodology designed to challenge motivated students. The honors section requires that each student make a 15-minute classroom presentation in which he or she interprets and explains a section of text taken from the writings of one of the philosophers listed in the course syllabus (from Descartes to Kant). The honors section also requires a 2,000 word term paper.

PHIL 482 Law, Justice, and Punishment - Honors 3 Units

Formerly: PHIL 23H

Prerequisite: None
Enrollment Limitation: Eligibility for the Honors Program.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC (PHIL 368 or 482 or BUS 345, maximum one course)/CSU
54 hours Lecture
This course introduces the student to the historical, cultural, legal, and philosophical development in American culture of (1) abstract principles such as rights, justice, the nature of law, freedom of speech, equal protection of the law, and following precedent; and (2) theoretical issues such as statutory and constitutional interpretation, utilitarian and retributive theories of punishment, and justice as fairness; and (3) practices such as the exclusionary rule, plea bargaining, and the insanity defense.

PHIL 496 Teaching Assistant in Philosophy 1-4 Units

Formerly: PHIL 46

Prerequisite: A grade of "B" or better in the course for which the student is going to be a teacher's aide.
Acceptable for credit: CSU
54 hours Lecture
This course is for students who want to develop an in-depth understanding of the fundamentals of philosophy and learn to work with individuals and small groups of students.

PHIL 499 Experimental Offering in Philosophy .5-4 Units

Formerly: PHIL 11

Prerequisite: None
Advisory: Eligibility for ENGWR 300; one or more courses in philosophy with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: CSU
9-54 hours Lecture
Themes and experimental offerings in Philosophy 11 will encompass topics from the following areas: (a) knowledge and existence, (b) self and mind, (c) philosophy and the arts, (d) norms and politics, (e) philosophy of the East and West, (f) philosophical literature and myths, (g) science and human nature, and (h) specific ideas of individual philosophies. The course may be repeated for credit providing there is no duplication of topics.

Photography PHOTO

Associate of Arts Degree

Career Certificate

Certificate of Completion

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Commercial Photography, Career Certificate

Digital Photography, Career Certificate

Fine Art, Career Certificate

Photo-Journalism, Career Certificate

Portrait and Wedding Photography, Career Certificate

Photography, Certificate of Completion

Career Opportunities

The Photography Program gives students the opportunity to prepare for entry level positions as press photographer, photojournalist, portrait photographer, photo-lab technician, and other career fields that utilize photography techniques.

Recommended High School Preparation

Courses in art, English, journalism, basic photography, graphic arts.

Costs

In addition to the normal student expenses (for textbooks, personal equipment and supplies) laboratory materials fees may be required. These fees may vary each semester. If these fees create a financial burden, students should consult the Financial Aid Office for possible assistance.

Photography

Associate of Arts Degree
Certificate of Completion, Level 3

Required Program for the Degree	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Digital Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 350, Photojournalism	3
PHOTO 352, Photographic-Essay	3
PHOTO 400, Digital Imaging	3
Total Units Required	**21**

Suggested Electives
ART 300, BUS 300, ENGWR 100, ENGWR 384 (same as COMM 351 and JOUR 310), GCOM 101, 300; JOUR 300, 402; PHOTO 322, 360, 362, 370, 375, 390, 392, 401

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Photography

Certificate of Completion, Level 3

The traditional Photography Certificate of Completion gives the students the opportunity to generally prepare themselves for an entry-level position in this fast growing field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen and as requested by the instructors. Lab chemicals are provided.

Required Courses	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Digital Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 400, Digital Imaging	3
Total Units Required	**15**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better.

CELEBRATING 90 YEARS

Commercial Photography

Career Certificate

The Commercial Photography certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Digital Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 360, Large Format Photography	3
PHOTO 362, Zone System	3
PHOTO 370, Portraiture and Wedding Photography	3
PHOTO 400, Digital Imaging	3
PHOTO 322, Color Slide Photography	3
Total Units Required	**27**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Digital Photography

Career Certificate

The Digital Photography Certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this fast growing field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Digital Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 400, Digital Imaging	3
PHOTO 401, Digital Photography	3
Total Units Required	**18**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Fine Art Photography

Career Certificate

The Fine Art Certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 322, Color Slide Photography	3
PHOTO 360, Large Format Photography	3
PHOTO 362, Zone System	3
PHOTO 352, Photographic-Essay	3
Total Units Required	**18**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Photo-Journalism

Career Certificate

The Photo-Journalism Certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	**Units**
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Digital Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 360, Large Format Photography	3
PHOTO 362, Zone System	3
PHOTO 370, Portraiture and Wedding Photography	3
PHOTO 400, Digital Imaging	3
PHOTO 322, Color Slide Photography	3
Total Units Required	**27**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Portrait and Wedding Photography

Career Certificate

The Portrait and Wedding Certificate gives the students the opportunity to fully prepare themselves for an entry level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	**Units**
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Digital Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 390, Studio Lighting Techniques	3
PHOTO 370, Portraiture and Wedding Photography	3
PHOTO 375, Fashion-Glamour Photography	3
Total Units Required	**21**

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better.

Photography (PHOTO)

NOTE: The University of California has a limit on the number of units of photography courses that can be transferred. See a counselor for detailed information on the current UC Articulation Agreement.

PHOTO 210 Photography Business 3 Units

Formerly: PHOTO 60

Prerequisite: None
54 hours Lecture
This course is designed to address the business of Photography. It introduces the basic elements of starting and operating a photography business, including necessary permits, studio locations, business plan development, media advertising, marketing, product/services pricing and sales. The student will learn how to prepare, present and implement a photography business plan.

PHOTO 301 Beginning Photography 3 Units

Formerly: PHOTO 40

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course combines lectures and hands-on experience in black and white photography. Instruction includes: camera function, exposure control, film processing, enlarging prints, low light photography, flash photography, and print finishing. Creative control and elements of composition will also be taught. Class includes lectures, slide presentations, lab time, written tests, and production of a portfolio. Students are required to provide their own adjustable camera and necessary materials.

PHOTO 310 Intermediate Photography 3 Units

Formerly: PHOTO 41

Prerequisite: PHOTO 301 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This intermediate course provides instruction in camera and advanced darkroom techniques of black and white photography. Units of instruction include: exposure control, film development, enlarging, composition, daylight and artificial lighting, filters, close-up photography, print finishing, and historical advancements of photographic processes. One optional field trip is offered. Students must have their own adjustable camera and provide necessary materials.

PHOTO 322 Color Slide Photography 3 Units

Formerly: PHOTO 46

Prerequisite: PHOTO 301 and 310 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in the use of color slide material. Students will be experimenting using different slide films from various companies. A strong emphasis is on stock photography, marketing, and exposure control. The chosen process is E-6, and processing will be done off campus. Students must have their own adjustment 35mm cameras and provide related instructional materials. One field trip is required. This course may be taken twice for credit.

PHOTO 335 Digital Color Photography 3 Units

Formerly: PHOTO 42

Prerequisite: PHOTO 310 and 400 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course covers the fundamental principles of color photography. Topics of instruction include correct exposure for color films, printing from color negatives or transparencies by digital methods and techniques, digital retouching and color balancing. The class includes lectures, slide presentations, lab time, field trips and written tests. A notebook and a portfolio of 12x10 digital prints, mounted on 11x14 mounts, will be the end product. Students must have their own adjustable cameras and provide necessary digital materials. The approximate cost for materials ranges between $50 and $125. There are three optional field trips offered. This course may be taken three times for credit due to software changes.

PHOTO 340 Careers in Photography 3 Units

Formerly: PHOTO 43

Prerequisite: PHOTO 310 and 400 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to give students an overview of different careers available in the photographic industry. Fields of study include portraiture, wedding photography, fashion, commercial and tabletop, photojournalism. Students are encouraged to pursue their own area of interest through the production of a portfolio, and working with professionals in the field. The class includes: lectures, slide presentations, lab time, written tests, studio visits, notebook and a portfolio of 15x10 prints, mounted on 11x14 mounts. The prints may be computer generated, black & white, or transparency format. In addition the students will complete a resume, price list, and portfolio. Students must supply their own adjustable cameras and provide required digital media. This course may be taken three times for credit.

PHOTO 350 Photojournalism 3 Units

Formerly: PHOTO 44

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides instruction in camera and advanced photojournalism techniques in black and white and color photography. Darkroom techniques in film processing and printing are emphasized. Digital photography will be covered as well. A print portfolio or digital portfolio will be completed. Students must provide their own single lens reflex camera and related materials.

PHOTO 352 Photographic-Essay 3 Units

Formerly: PHOTO 55

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course concentrates on the development of the photographic essay. Photographic emphasis is on exploring one subject. Black and white prints are required in a portfolio form. Students must provide their own self-adjustable camera of any format and related materials.

PHOTO 360 Large Format Photography 3 Units

Formerly: PHOTO 47

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to give students a thorough knowledge of view camera operation, both in the studio and in the field. Topics of instruction include: view camera movements to obtain unlimited focus and perspective, correct techniques for exposing and processing sheet film, adjustments necessary to print large format negatives, and presentation of the large format image. This course will also concentrate on advanced black and white printing technique. There are field trips. Students must furnish their own camera of any format and must provide necessary materials. The class includes: lectures, lab, written tests, a journal and production of a portfolio.

PHOTO 362 Zone System 3 Units

Formerly: PHOTO 51

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an advanced study of the zone system in black and white, designed to give the student an in-depth understanding both in theory and practice. Topics include metering exposure for appropriate zone placement, processing control for accurate negative contrast, testing of photographic materials, including densitometry and sensitometry, and the practical application of this system. Students are encouraged to use a variety of formats.

PHOTO 370 Portraiture and Wedding Photography 3 Units

Formerly: PHOTO 52

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to include portrait lighting and posing, an understanding of wedding photography, camera and darkroom techniques. Wedding protocol, multicultural weddings, studio operation, pricing, and studio/outdoor portraiture. Students are urged to work in black & white and color. The format of class includes lectures, lab time, on location class meetings, and a portfolio geared toward a professional presentation. This course may be taken two times for credit.

PHOTO 375 Fashion-Glamour Photography 3 Units
Formerly: PHOTO 53

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to include fashion/glamour posing, lighting, camera, and digital and traditional darkroom techniques. The business of fashion/glamour photography and pricing, and studio operation will be included. Students are urged to work in both digital and traditional photography. This course includes lectures, slide presentations, on location class meetings, lab time, and a finished portfolio geared toward a professional presentation. This course may be taken two times for credit.

PHOTO 390 Studio Lighting Techniques 3 Units
Formerly: PHOTO 50

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is a study in studio lighting techniques used in commercial photography. Topics of instruction include: lighting ratio, correct exposure using electronic flash, basis portraiture and advertising. Other topics include appropriate choice of camera format and films, and studies of commercial photography. Students are encouraged to work in a variety of formats, using both black and white, and color. The class includes: lectures, slide presentations, lab time, written tests, notebook and a portfolio, with three outside on-campus class meetings. Students must provide own adjustable camera and related instructional materials.

PHOTO 392 Commercial and Advertising Photography 3 Units
Formerly: PHOTO 56

Prerequisite: PHOTO 310 and 400 or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an advanced study in studio lighting techniques used in commercial and advertising photography. Topics of instruction include advanced studio lighting, correct exposure using electronic flash, appropriate choice of camera format and films, studies of commercial, advertising, and marketing photography. Students are encouraged to work in a variety of formats, using black & white, color, and digital techniques. The class includes lectures, slide presentations, field trips, lab time, written tests, notebook and a portfolio. This course may be taken four times for credit on different software. Students must supply their own adjustable camera and related digital materials.

PHOTO 400 Digital Imaging 3 Units
Formerly: PHOTO 57

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory course in digital imaging. Methods currently used in publishing will be emphasized. The course topics include Adobe Photoshop, PageMaker, how to use a photo CD, multimedia use for electronic portfolio, use of computers, scanners, and how to develop a digital portfolio. Field trips are included in this course to learn about industry applications. Students must provide their own adjustable camera and digital materials. This course may be taken three times for credit.

PHOTO 401 Digital Photography 3 Units
Formerly: PHOTO 58

Prerequisite: PHOTO 301 and 400 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory class in digital photography. The class includes: lectures, use of computers and scanning information on digital cameras, slide presentations, on-location field trips, and development of a digital portfolio. Students must supply their own adjustable camera and digital materials. This course may be taken three times for credit.

PHOTO 494 Topics in Photography .5-4 Units
This course is designed to give students an opportunity to study topics not included in current course offerings. This course may be repeated for credit providing there is no duplication of topics.

PHOTO 498 Work Experience in Photography 1-4 Units
Formerly: PHOTO 98

Prerequisite: None
72 hours Lecture
See Work Experience.

Physical Education
ADAPT DANCE FITNS PACT PET SPORT TMACT

Associate in Arts Degree

Athletic Training, Transfer Degree

Physical Education, Transfer Degree

Division of Physical Education, Health, and Athletics

Gary Torgeson, Dean/Athletic Director

Hughes Stadium, Sections 1 & 3

916-558-2425

Career Opportunities
Teaching, coaching, and athletic administration in elementary and secondary schools and colleges.

Recommended High School Preparation
Standard college preparatory program, especially beginning algebra and chemistry.

Program Information
The program is typical of lower-division requirements for four-year colleges and universities (though the specific science requirements tend to vary from college to college). For specific requirements students should refer to a catalog of the college of their choice.

Physical Education

Required Program for the Degree	Units
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
CHEM 305, Introduction to Chemistry	5
A minimum of 3 units from the following:	3
HEED 300, Health Science (3)	
HEED 314, Community First Aid and Safety (2)	
HEED 340, College Success For The Student Athlete (3)	
PET 300, Theory of Physical Education, Fitness, and Sport (3)	
Any PACT course	1
SPORT (Athletic Teams)	2
Total Units Required	**21**

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Physical Education, Transfer

Program Information
The program outlined below is typical of lower-division requirements for four-year colleges and universities (though the specific science requirements tend to vary from college to college). For specific requirements students should refer to a catalog of the college of their choice.

Required Program	Units
CHEM 305, Introduction to Chemistry (5) or CHEM 400, General Chemistry (5)	5
BIOL 402, Cell and Molecular Biology	5
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
STAT 300, Introduction to Probabilities and Statistics	4
Total Units Required	**24**

Suggested Electives
PET 300

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements. See SCC graduation requirements.

CELEBRATING 90 YEARS

Athletic Training, Transfer

Career Opportunities
Teaching athletic training classes, working in a high school, community college, four-year university, physical therapy clinic.

Recommended High School Preparation
Standard college preparatory program.

Program Information
This program outlined below is designed to prepare the student athletic trainer for transfer to a four-year university by having many of the lower-division requirements completed (specific science requirements vary from college to college). Students wanting to be NATA Certified need to complete their Bachelor's Degree.

Required Program

Science Classes:	**Units**
CHEM 305, Introduction to Chemistry	5
CHEM 306, Introduction to Chemistry	5
PHYS 350, General Physics	4
BIOL 402, Cell and Molecular Biology	5
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5

Athletic Training Classes:

PET 330, Care and Prevention of Athletic Injuries	3
PET 331, Lab in Care and Prevention of Athletic Injuries	1
PET 334, Practical Applications in Athletic Training/Sports Medicine	3
PET 497, Internship in Physical Education - Theory	1-4
FCS 340, Nutrition	3
Total Units Required	**40-43**

Suggested Electives
HEED 314, PSYC 300, STAT 300

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus the general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Physical Education

NOTE: The University of California has a limitation on the number of units of physical education courses that can be transferred (four units maximum). The California State University System has no such limitation, but there are restrictions placed on the number of physical education units that can be applied toward the major. (Refer to the catalog of the transfer institution of your choice for detailed information.)

All activity classes are open to both men and women. Students may be concurrently enrolled in more than one physical education activity class; however, no more than two of the same physical education activity classes may be taken by a student in the same semester.

ADAPT (Adapted PE), DANCE (Dance), FITNS (Fitness), PACT (Personal Activity), TMACT (Team Activity), and SPORT (Intercollegiate prefix refer to physical education activity classes meeting the General Education requirement for graduation unless identified otherwise. Several activity areas are separated into beginning, intermediate, and advanced levels. The beginning classes concentrate on fundamental skills, rules, scoring, equipment, dress, etiquette, and basic strategy. The intermediate classes continue efforts on skill development while concentrating on strategy and competitive play. The advanced classes emphasize high level sports techniques.

The Physical Education activity courses are one-unit courses and require three hours of activity each week, unless identified otherwise. They may be repeated up to four times in each activity unless identified otherwise (e.g. four Tennis in any combination of beginning, intermediate, and advanced level).

Adapted Physical Education (ADAPT)

ADAPT 30 Adapted Aquatics/Adapted General Conditioning 1 Unit
Formerly: PER 200

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center.
54 hours Laboratory
Non-degree Applicable
This is a non-transferable course in weight training and aquatic conditioning for physically limited and learning disabled students conducted in a recreational environment. All exercise programs are designed to meet the students' individual goals. This course may be taken four times for credit.

ADAPT 310 Adapted Lifetime Sports 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Lifetime sports is a physical education class designed to expose individuals with physical disabilities to a variety of individual sports in which they can participate. Modifications and assistive devices will be used to enable students to participate in sports such as bowling, golf, tennis, etc. This course may be taken four times for credit.

ADAPT 320 Arthritis Exercise, Individual Exercise for Individuals with Arthritis 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Arthritis Exercise is a physical education class that is specially designed for individuals with arthritis. Planned individualized and group activities will promote wellness and fitness. General principles of safe appropriate stretching and exercise will be discussed and practiced. This course may be taken four times for credit.

ADAPT 322 Back Care 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: CSU
54 hours Laboratory
Back Care is a physical education class designed to help relieve or reduce back pain. Individualized and/or group exercise programs will be designed and utilized for students with back disorders. This course may be taken four times for credit.

ADAPT 324 Heart Healthy 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Heart Healthy is a physical education class that is specially designed for individuals who are recovering from a cardiac disability. Individualized and/or group activities will be used to increase fitness. General specific exercise principles will be discussed to encourage a continued healthy and active lifestyle. This course may be taken four times for credit.

ADAPT 331 Mobility Training for the Physically Limited 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This is a weight training class for physically limited students who need to increase muscular strength. All exercise programs are designed to meet the student's individual goals. General strengthening, conditioning and body mechanics are included. This course may be taken four times for credit.

ADAPT 332 Adapted Aquatics 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professional. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Adapted water exercises will be individually designed for students with physical limitations. This course may be taken four times for credit.

ADAPT 400 Application of Techniques for Adapted Physical Education 1 Unit

Formerly: PER 10

Prerequisite: Students must have taken PET 310, with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Application of Techniques for Adapted Physical Education is a physical education course which provides students practical experience in the implementation of physical activity for individuals with disabilities. This class may be taken four times for credit.

ADAPT 494 Topics in Adapted Physical Education .5-4 Units

This course is designed to give students an opportunity to study topics not included in current course offerings. This course may be repeated for credit providing there is no duplication of topics.

Dance (DANCE)

DANCE 304 Polynesian Dance **1 Unit**

Prerequisite: None
General Eduation: AA/AS Area E1
Acceptable for credit: CSU
54 hours Laboratory
This course covers basic dances from Polynesia, including dances from Tahiti, Hawaii, and New Zealand. Class sessions consist of warm-ups, center dances, and cultural vocabulary. An opportunity to study the history, location of origin, and cultural importance of Polynesian dance is presented. This course may be taken four times for credit.

DANCE 310 Jazz Dance **1 Unit**

Formerly: PER 1

Prerequisite: For Beginning Jazz Dance, none; Prerequisite for Intermediate: Successful completion of Beginning Jazz Dance with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The beginning course is a basic approach to Jazz Dance. Warm-up technique and turns, isolations, locomotor movements and dance combinations will be taught at this level. The dance combination will vary in styles to include ethnic, lyrical, modern, and hip hop/funk movements and steps. Group choreography and performance will be emphasized. The Intermediate course is an exploration of the various styles of jazz dance at the intermediate level. It includes further review of the dance movements learned in the beginning course. Student choreography and studio performances are required. This course may be taken four times for credit.

DANCE 320 Ballet **1 Unit**

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This introductory course in classical ballet will focus on traditional ballet exercises at the barre, center floor work and movement across the floor. Beginning dance students with no previous experience are welcome to join. This course may be taken four times for credit.

DANCE 330 Modern Dance **1 Unit**

Formerly: PER 1

Prerequisite: For Beginning Modern Dance, none; Prerequisite for Intermediate Modern Dance, successful completion of Beginning Modern Dance with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Modern Dance covers rhythmic movements, isolated movements, free expression, and improvisation. Elemental concepts of space, time, and force will be included. In beginning modern dance, dance vocabulary, warm-up techniques, improvisational dancing, basic rhythms, music, and sounds will be included. The seven basic locomotor movements and beginning choreography techniques will be taught. In intermediate modern dance, the contributions of various cultures to contemporary dance will be explored. Students will create studies to records, percussion instruments, and other media. This course may be taken four times for credit.

DANCE 340 Social Dance **1 Unit**

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course offers instruction in basic social dance steps, styles, and rhythms. Students will develop the skills necessary for dances such as the Fox Trot, Waltz, Swing, Cha Cha, Mambo/Salsa, Rumba, and Tango. The class will focus on alignment, partnering, analysis of rhythm and execution of specific dances in relation to the music. This course may be taken four times for credit.

DANCE 370 Dance Composition/ Production **1 Unit**

Formerly: PER 1

Prerequisite: None
Advisory: Dance and performing experience.
General Education: AA/AS Area E1
Acceptable for credit: CSU
54 hours Laboratory
This course is designed to give students the opportunity to choreograph and perform dance at the college level. Students will improve technique and experience other forms of dance styles. This course may be taken four times for credit.

Fitness (FITNS)

FITNS 300 Aerobics **1 Unit**

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Aerobics is a physical education course that is designed to improve an individual's level of fitness, general appearance and well-being. This course will concentrate on cardiovascular fitness, muscle toning, and flexibility through aerobics, for example, a variety of abdominal exercises, stretching fundamentals and dancercise routines. This course may be taken four times for credit.

FITNS 303 Dance Aerobics **1 Unit**

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is designed to improve the level of fitness through dance and basic exercise movement. Students will be taught dancercise routines to music appropriate for low-impact activity. Muscular strength and endurance will be achieved through this form of exercise. This class may be taken four times for credit.

FITNS 306 Aerobics: Cardio-Kickboxing 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course emphasizes execution, body movements, mechanics and timing of exercises utilized in boxing, circuit training and aerobics to improve general fitness and body toning. Students will be required to provide hand wraps. This course may be taken four times for credit.

FITNS 308 Step Aerobics 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The Step Aerobics class is a physical education course that is designed to improve an individual's level of fitness, general appearance, and well being. This course will concentrate on cardiovascular fitness, muscle toning, strength development and flexibility through step aerobics: for example, a variety of exercises using hand weights to strengthen upper body, abdominal exercises and various step routines. The course may be taken four times for credit.

FITNS 310 Aqua Aerobics 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Aqua aerobics is a physical education course designed to help students gain an increased level of conditioning through muscular strength, endurance, coordination and flexibility using basic aquatic exercises. No swimming skills are needed. The course will include exercises for shallow water workouts. This course may be taken four times for credit.

FITNS 312 Aquatic Fitness 1 Unit
Formerly: PER 1

Prerequisite: Student must achieve a passing standard on the swim test of 100 yards of freestyle with proficient breathing to the side, 50 yards of backstroke, and 50 yards of breaststroke.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Aquatic Fitness is a physical education course that includes a workout approach with emphasis on aerobic and anaerobic fitness. It is a self-paced class and utilizes interval training, cardiovascular conditioning, swimming technique, and aerobic and anaerobic training principles. This course may be taken four times for credit.

FITNS 324 Mat Pilates 1 Unit
Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This beginning course is a method of body conditioning which includes a unique system of stretch and strength exercises. Mat Pilates is designed to work with the deepest muscles in the body while creating core strength without pain. The sequence of mat-work exercises will strengthen and tone muscles, improve body posture and increase flexibility and balance while uniting body and mind. This course may be taken four times for credit.

FITNS 330 Cross Training 1 Unit
Formerly: PER 1

Prerequisite: None
Advisory: Beginning Swimming Skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
8 hours Lecture; 28 hours Laboratory
This physical education course is designed to provide students the opportunity to participate in a variety of physical training methods. Class sessions may include, but are not limited to, running and pool workout, resistance, and strength training, as well as the use of stationary equipment. This course may be taken four times for credit.

FITNS 331 Boot Camp Fitness 1 Unit
Prerequisite: None
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Activity
This course is designed as an intense boot camp fitness class conducted on campus using indoor and outdoor facilities. Training includes aerobic, anaerobic conditioning, strength and endurance training, individual and team fitness concepts. This course may be taken four times for credit.

FITNS 332 Off Season Conditioning 1 Unit
Formerly: PER 1

Prerequisite: None
Enrollment Limitation: Participation in intercollegiate athletics.
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Laboratory
This physical education course involves sport specific training and conditioning skills and techniques. There is a concentration of basic concepts with emphasis on conditioning. Students will have the opportunity to obtain knowledge and practical experience in a specific intercollegiate sport. The course may be taken four times for credit.

FITNS 336 Plyometrics: Advanced Conditioning 1 Unit
Formerly: PER 1

Prerequisite: None
Advisory: Student should be able to demonstrate a high level of fitness conditioning.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Plyometrics is an advanced level conditioning course that will utilize a variety of equipment, training aids, and training methods to promote speed, power, agility, strength, endurance, and flexibility. This course may be taken four times for credit.

FITNS 338 Spin Biking 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is specifically designed for cycling enthusiasts and other athletes looking to improve their cardiovascular cycling skills levels. This course will use basic and athletic drills based on speed, work resistance, recovery periods. This course may be taken four times for credit.

FITNS 350 Fitness And Weight Control 2 Units
Prerequisite: None
Advisory: Completion of ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course is designed to assess and improve physical fitness levels and encourage a healthy attitude toward body image and weight control. Students receive instruction concerning the theories and practical activities involved in obtaining and maintaining an appropriate level of physical fitness.

FITNS 354 Individualized Physical Fitness 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course will emphasize individualized structure and components to physical fitness. All workout programs will be specific to the goals, needs and interests of the student. Students will be required to monitor and record all programs, workouts and activities for assisting their lifelong health habits. This course may be taken four times for credit.

FITNS 356 Non-Aerobic Trim and Tone 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Non-Aerobic Trim and Tone is designed to improve an individual's level of fitness, general appearance, and well-being. This course will concentrate on muscle toning and strength development through non-aerobic activities, for example, a variety of abdominal exercises, exercises for hamstrings and quadriceps, exercises for buttocks. This course may be taken four times for credit.

FITNS 357 Wellness 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course allows students to work independently while monitoring their fitness program. This allows for a process that guides the students in strategies and decisions for healthy lifestyle habits. This course may be taken four times for credit.

FITNS 360 In-line Skating 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course develops basic knowledge and skills of in-line skating while providing physical exercise. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development within each activity area. This course may be taken four times for credit.

FITNS 371 Life Fitness Center Training 1 Unit
Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: CSU
54 hours Laboratory
An open-entry/open-exit course designed to increase cardiovascular endurance, strength, and flexibility through the use of circuit training. A required orientation includes performing an individualized fitness assessment, learning guidelines on accessing fitness, training, and wellness information on-line, and discussing how to train safely and efficiently using state-of-the-art equipment. Grades are Credit/No Credit. This course may be taken four times for credit.

FITNS 380 Circuit Weight Training 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Circuit Weight Training combines weight machines, some free weights, cardiovascular endurance, and flexibility while decreasing body fat. It is a wellness program in which a student, using different muscle groups, will alternate timed lifting with timed recovery. This course may be taken four times for credit.

FITNS 381 Weight Training 1 Unit
Formerly: PER 1

Prerequisite: For Weight Training, None; Prerequisite for Advanced Weight Training: Student must possess beginning weight training skills and knowledge
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Weight Training is a vigorous group weight training program set up in training stations. Weight training apparatus, equipment, and safety are covered. In beginning weight training, the student is expected to have little or no experience with weight training skills and techniques. These will be taught in the course. Advanced weight training is a specialized course dealing with advanced lifting techniques and Olympic lifting exercises. This course may be taken four times for credit.

FITNS 390 Basic Yoga 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU

54 hours Laboratory
This course is designed to enhance fitness levels in everyone. It is a complete fitness program, regardless of age, to achieve a more limber body, increase physical coordination, better posture, and improved flexibility. This form of exercise embodies controlled movement, concentration, and conscious breathing. Frees your spirit and provides a workout for the mind, body and internal organs. The student will learn about the oldest physical discipline in existence. In every area of life, yoga represents balanced moderation. This course may be taken four (4) times for credit.

FITNS 401 Walking 1 Unit

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The walking class is a physical education course that is designed to improve a student's level of fitness, physical appearance and well being. This course will concentrate on proper walking techniques, cardiovascular endurance, muscle strengthening and flexibility. The class will offer walking routes on and off campus for workouts. This course may be taken four times for credit.

FITNS 402 Aerobic Running 1 Unit

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Laboratory
Aerobic running is a physical education course that is designed to instruct the student in the basic fundamentals and techniques of running. The course will concentrate on improving the physical capacity and efficiency of the body with the emphasis on development of muscular power and organic power, as influenced by such factors as body type, diet, health status, rest and sleep. This course may be taken four times for credit.

FITNS 431 Water Safety Instruction 2 Units

Formerly: PER 1

Prerequisite: Advanced swimming with a grade of "C" or better or equivalent.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is designed to teach students to become swimming instructors, administer "Learn-to-Swim Programs" and enable the student to qualify for American Red Cross Water Safety Instructor's certificate.

FITNS 436 Lifeguard Training 2 Units

Formerly: PER 1

Prerequisite: Completion of Advanced Swimming class with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
36 hours Lecture; 4 hours Laboratory
This course is designed to teach students to become a certified lifeguard. The student will learn the skills necessary to pass the American Red Cross certification examination. This course may be taken two times for credit.

FITNS 440 Swimming 1 Unit

Formerly: PER 1

Prerequisite: For Beginning, none; For Intermediate Swimming, students must achieve a passing standard on the swim test of 50 yards of freestyle with proficient breathing to the side; Prerequisite for Advanced: Students must achieve a passing standard on the swim test of 50 yards of freestyle with proficient breathing to the side and 50 yards of backstroke.
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Laboratory
Swimming covers the basic fundamentals, stroke techniques, and safety skills. The beginning swimming course is designed for non-swimmers who cannot swim one length of the pool (25 meters). Instruction will be given in the physical and psychological adjustment to water as well as basic swimming stroke techniques. Intermediate swimming instruction includes refining the freestyle stroke, backstroke, and breaststroke. Butterfly and turn techniques will be taught. Advanced level of instruction will be provided in the advanced swimming course. The emphasis of the course will be endurance and stroke efficiency. This course may be taken four times for credit.

FITNS 454 Personal Safety 1.5 Units

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: CSU
18 hours Lecture; 36 hours Laboratory
This is a physical education course in personal safety. The major areas to be reviewed are safety in the home, workplace, school, on-line environment, street, and car. The course covers three topics in these areas: prevention, defensive strategies (physical and non-physical), and follow-up (police report, medical, psychological). Community resources will be discussed.

FITNS 494 Topics in Fitness .5-4 Units

This course is designed to give students an opportunity to study topics not included in current course offerings. This course may be repeated for credit providing there is no duplication of topics.

Personal Activity (PACT)

PACT 310 Badminton 1 Unit

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Badminton is a physical education class that will cover the basic fundamentals and techniques of the game. Rules, strategy, and social etiquette will also be included. This course may be taken four times for credit.

PACT 320 Bowling 1 Unit

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Bowling is a physical education course for beginning, intermediate, and advanced students that will cover the basic fundamentals and techniques as well as rules, etiquette, and scoring. Emphasis in on rhythmic four or five step approach with either a hook or straight ball delivery. This class may be taken four times for credit.

PACT 330 Boxing 1 Unit

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Boxing is a physical education class that will cover the basic fundamentals and techniques of the sport. Rules and strategy will also be included. This course may be taken four times for credit.

PACT 340 Fencing 1 Unit

Formerly: PER 1

Prerequisite: For Beginning, none; Prerequisite for Intermediate: Fencing Beginning, with a grade of "C" or better or equivalent skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Fencing covers the fundamentals of fencing. In beginning fencing, the fundamentals and techniques of the sport will be taught. Basic forms of posture & movement and basic attacks & parries will be covered. In intermediate fencing, intermediate levels of techniques will be taught. Attack and defense skills will be covered. This course may be taken four times for credit.

PACT 350 Golf 1 Unit

Formerly: PER 1

Prerequisite: For Beginning Golf, None.
Advisory: Intermediate Golf is Beginning Golf or beginning golf skills; Advisory: Advanced Golf is Intermediate golf skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Golf covers the basic fundamentals, techniques, rules and social courtesies of the activity. This course is an off-campus class. The student will need transportation to the facility. In beginning golf, the student will learn about beginning golf skills (grip, stance, swing), fundamentals, rules, golf etiquette, and techniques of the game. In intermediate golf, the student will learn about course management in addition to practicing the skills learned in beginning golf. Students must have their own set of golf clubs and equipment. For advanced golf, the student will refine their skill level and learn advanced techniques such as wind-contour of the ground, various surfaces, changes in flight of the ball, and hill lies rules. This course may be taken four times for credit.

PACT 380 Table Tennis 1 Unit

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is intended for all skill levels. It is designed to give the student an arena to learn the skills and strategies involved in table tennis and achieve a cardiovascular workout. This course may be taken four times for credit.

PACT 390 Tennis 1 Unit

Formerly: PER 1

Prerequisite: for Beginning Tennis: None; Prerequisite for Intermediate Tennis: The ability to successfully execute basic tennis skills; Prerequisite for Advanced: The ability to successfully execute intermediate tennis skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Tennis covers the basic fundamentals, stroke techniques, and strategies for singles and doubles play. Beginning tennis will cover the basic fundamentals, techniques, rules, strategy, and etiquette of the activity. In intermediate tennis, singles and doubles play strategy will be included as well as refining stroke techniques. Additional skill techniques and conditioning drills will be taught in the advanced tennis course. This course may be taken four times for credit.

PACT 400 Track and Field 1 Unit

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The track and field class is a physical education class that will cover the basic fundamentals of the track and field events. The student will have the opportunity to obtain knowledge and practical experience of track and field. This course may be taken four times for credit.

PACT 410 Wrestling 1 Unit

Formerly: PER 1

Prerequisite: for Beginning Wrestling, none; Prerequisite for Intermediate: Beginning wrestling skills; Prerequisite for Advanced: Intermediate wrestling skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Wrestling covers the basic wrestling techniques, rules, strategies, and etiquette of the activity. In intermediate wrestling, a review of the basic wrestling techniques will be provided. Three wrestling styles will be taught: Collegiate, Freestyle, and Greco-Roman. In advanced wrestling, intermediate wrestling techniques will be reviewed. Students will continue to refine their techniques using the various wrestling styles. This course may be taken four times for credit.

Physical Education - Theory (PET)

PET 300 Theory of Physical Education, Fitness, and Sport — 3 Units

Formerly: PET 11

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 310.
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
54 hours Lecture
This course provides students with an orientation of the history, ideas, events, people and programs that have led to the current status of physical education, fitness, and sport. Students will be introduced to various career opportunities in the physical education, fitness, and sports fields. Students will receive information regarding preparation for careers in these fields as well.

PET 304 Introduction to Sports Management — 3 Units

Formerly: PET 1

Prerequisite: None
Advisory: ENGWR 100 or ESLW 310 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to introduce students to the world of Sports Management. It will show the scope and career opportunities of Sports Management. It will heighten the student's awareness of careers in sports and the group field of Sports Administration. This will also be an emphasis on current events in the world of Sports Management.

PET 307 Mental Skills for Sport Performance — 3 Units

Formerly: PET 3

Prerequisite: None
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course develops a mental understanding of sport performance in regards to the brain's impact on muscular activity. Stress management, goal setting, peak performance, the ability to learn, the ability to adjust, and the ability to practice effectively will be taught to enhance sport performance. The student will apply basic mental skills (relaxation/activation, imagery, and cognitive restriction skills) to performance activities.

PET 310 Theory and Application of Techniques for Adapted Physical Education — 2 Units

Formerly: PET 10

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
Theory and Application of Techniques for Adapted Physical Education is a physical education course which provides students an orientation to specific disabilities and practical experience in the implementation of physical activity for individuals with disabilities. Basic knowledge of movement related terminology, charting individual progress, exercise concepts, and characteristics of specific disabilities as they relate to exercise will be covered. There will be an opportunity to learn and practice safe transfers and guide individuals with disabilities through a structured exercise program. This class is invaluable for students interested in pursuing a career in physical therapy, occupational therapy, nursing, adapted physical education or any field that requires one to work with individuals with disabilities.

PET 330 Care and Prevention of Athletic Injuries — 3 Units

Formerly: PET 30

Prerequisite: None
Advisory: PET 331
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
54 hours Lecture
This course provides an introduction to injury prevention, injury care, and rehabilitation of athletic injuries. Students will gain basic information about sports injuries, their causes, and treatment.

PET 331 Lab in Care and Prevention of Athletic Injuries — 1 Unit

Formerly: PER 30

Prerequisite: None
Corequisite: PET 330
Acceptable for credit: CSU
54 hours Laboratory
This course is designed to teach techniques of taping, wrapping, stretching, and soft tissue management to facilitate prevention and rehabilitation of athletic injuries. This would accompany PET 330.

PET 334 Practical Applications in Athletic Training/Sports Medicine — 3 Units

Formerly: PET 30A

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to meet the educational needs of students wishing to transfer to a curriculum athletic training program. Curriculum athletic training programs are very structured educational programs closely monitored by the National Athletic Trainers Association. The course will cover athletic training room management, advanced taping and first-aid skills, injury evaluation and rehabilitation.

PET 342 Theory of Baseball — 2 Units

Formerly: PET 17

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed for advanced analysis of baseball. Focus is placed on analysis and instruction of individual skills and team concepts. Special emphasis will be placed on a model for instruction. Specific areas of emphasis will include but not be limited to: team selection, fund raising, facility development, practice organization, individual fundamentals, and drills to develop those fundamentals,

team fundamentals (Bunt defenses, cutoffs and relays, pick-offs, 1st and 3rd defenses) and drills to develop those fundamentals, conditioning and strength development, charting and scouting.

PET 346 Theory of Basketball 2 Units
Formerly: PET 18

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
The course will give the students the opportunity to gain an understanding of coaching basketball beginning with conditioning for the pre-season and the regular season. Additionally, students will gain an understanding of how to teach basic fundamentals and learn various strategies including team offense and defense. Students will develop their own philosophies of coaching. Students will learn how to scout other teams and to read and explain basketball diagrams.

PET 348 Theory of Dance 2 Units
Formerly: PET 31

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
This is an introduction to the history and theory of Ballet, Modern, and Jazz Dance forms. Students will explore the role of dance in the educational system and in our society. Students will learn the differences and similarities of the three different dance forms. The art of choreography strategies will be explored with the three different forms. This course may be taken twice for credit.

PET 352 Theory of Football 2 Units
Formerly: PET 19

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
18 hours Lecture; 54 hours Laboratory
This course will overview current offensive and defensive fundamental drills by position at both the community college and four year level. These concepts will be divided into the various components of skill levels by specific positions., i.e Offensive: Running Backs, QBS, Wide-Outs, Tight Ends, and Interior Line; Defense: Secondary, Outside Linebackers, Inside Linebackers,Defense Line, and Kicking Specialist (punter, place kicker, and kick off).

PET 354 Theory of Soccer 2 Units
Formerly: PET 28

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Laboratory
This course will give students the opportunity to gain the knowledge of coaching soccer. In addition, students will gain an understanding of how to teach techniques and various tactics, including team offense and defense and learn match analysis in connection with game preparation. This course will also include injury prevention, season planning, team management, systems of play, refereeing, and an understanding of applied psychology.

PET 360 Theory of Softball (Fast-Pitch) 2 Units
Formerly: PET 25

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed toward advanced analysis of softball. Focus is placed on analysis and instruction of individual skills and team concepts; specific area of emphasis will include, but not be limited to, team selection, fund raising, facility development, practice organization, individual fundamentals, and drills to develop those fundamentals, along with team building fundamentals and drill to develop those qualities. Also included will be analysis of various coaching techniques, theories and philosophy. This course may be taken two times for credit.

PET 364 Theory of Swimming 2 Units
Formerly: PET 29

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Laboratory
This course covers all aspects of competitive swimming, including the scientific principles of stroke biomechanics, physiology, and psychology of training, workout design, and meet management. The course will include a review of current regulations of the National Collegiate Athletic Association and the Commission of Athletics. This course may be taken twice for credit.

PET 365 Theory of Water Polo 2 Units
Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed for advanced analysis of water polo. Focus is placed on analysis and instruction of fundamental individual and team concepts. Specific areas of emphasis will include, but not be limited to, individual skills such as passing, shooting, goalie work, and team concepts of offense and defense. This course will include a review of current rules and regulations of the National Collegiate Athletic Association (NCAA) and Commission on Athletics (COA).

PET 366 Theory of Tennis, Tactics and Strategy 2 Units
Formerly: PET 20

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
This course will examine the United States Tennis Association's six basic components of its player development program. Emphasis will be placed upon practical application of these components to competitive and recreational tennis. In addition, students will study 'knotty' problems that have occurred in tennis and which rules apply. Lastly, students will learn strategies and which tactics to utilize to implement those strategies. This course may be taken twice for credit.

PET 370 Theory of Track and Field 2 Units
Formerly: PET 21

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed for advanced analysis of movement and skills of track and field. The major emphasis will include but not be limited to: training theory, conditioning and strength training development, rules and strategies for successful performance in track and field.

PET 374 Theory of Volleyball 2 Units
Formerly: PET 26

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
18 hours Lecture; 54 hours Laboratory
This course is designed to develop a thorough understanding of the many aspects of Volleyball including training/conditioning programs, individual techniques, offense strategy/systems, defense strategy/systems, rules, drill development, practice plans, and team management. Emphasis will also be placed upon the importance of individual proficiency and team strategy/play.

PET 376 Theory of Wrestling 2 Units
Formerly: PET 23

Prerequisite: None
Acceptable for credit: UC (all UC transferable PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed toward advanced analysis of wrestling. Focus is placed on analysis and instruction of individual wrestling skills and team concepts. Specific areas of emphasis will include, but not be limited to team selection, fund raising, facility development, practice organization, individual fundamentals and drills to develop those fundamentals. Also included will be analysis of various coaching techniques, theories and philosophy. This course may be taken twice for credit.

PET 412 Strength and Fitness Certification 3 Units

Prerequisite: None
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course is designed to introduce and further research areas required for a strength and fitness certification for the National Council of Strength and Fitness (NCSM). The course includes scientific foundations, nutrition, body composition, components of fitness, exercise prescription, specific needs in special populations,connections between physical activity and mental and emotional health, and exercise programming and assessment.

PET 497 Internship in Physical Education Theory 1-4 Units
Formerly: PET 48

Prerequisite: PET 330 and 331 or concurrent enrollment in PET 330 and 331, or proof of knowledge and skills of preventative taping and recognition of basic athletic injuries.
Acceptable for credit: CSU
18 hours Lecture; 300 hours Laboratory
The student/athletic trainer will be exposed to a hands-on philosophy to the Athletic Training profession. Exposure to soft tissue techniques, advanced athletic taping and wrapping, emergency scenarios, physiology of injury recovery and rehabilitation programs as prescribed by the teams physicians and supervision by a certified athletic trainer. Units are awarded on the basis of one unit per 60 hours of unpaid work or 75 hours of paid work. This course may be taken four times for credit.

Sports (SPORT)

SPORT 90 Academic Study Skills for Student Athletes .5-3 Units
Formerly: PER 252

Prerequisite: Must be an athlete in an intercollegiate sport at Sacramento City College.
9 hours Lecture; 162 hours Laboratory
Non-degree Applicable
This lecture/lab course is designed to assist the student athlete in acquiring basic study skills and work habits to gain success in the classroom. In addition, the student-athlete will learn and apply motivational and time/stress management techniques. Nine (9) lecture hours will be mandatory regardless of the unit value enrolled. This is an open entry, open exit course. A student can register for the course up to the ninth (9) week of the semester. The course may be taken four times for credit for a maximum of three (3) units.

SPORT 300 Baseball, Intercollegiate-Men 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced baseball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletics competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 310 Basketball, Intercollegiate-Men 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced program designed to provide specialized training for competition against other community college teams. Demonstration of fundamental and advanced skills, adherence to rules and etiquette of basketball, and execution of team strategy will be expected of all students. This course may be taken three times for credit.

SPORT 315 Basketball, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced basketball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 320 Cross Country, Intercollegiate-Men 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
The advanced cross country course is a program providing specialized training for competition against other community college teams. Every student will be taught the fundamentals, advanced techniques, and strategy to be able to perform at the intercollegiate athletic competition level. This course may be taken three times for credit.

SPORT 325 Cross Country, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
The advanced cross country class is a program providing specialized training for competition against other community college teams. Every student will be taught the fundamentals, advanced techniques, and strategy to be able to perform at the intercollegiate level. This course may be taken three times for credit.

SPORT 330 Football, Intercollegiate-Men 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced football team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 345 Golf, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced golf team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 355 Soccer, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced soccer team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 365 Softball, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced softball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 370 Swimming and Diving, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced swimming and diving team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 375 Swimming and Diving, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced swimming and diving team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 380 Tennis, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced tennis team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 385 Tennis, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced tennis team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 390 Track and Field, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
The intercollegiate track and field class is an advanced program to provide specialized training for competition against other community college teams. Each student will be schooled in the fundamental and advanced technique for their specific events, along with the rules and strategy appropriate for intercollegiate competition. This course may be taken three times for credit.

SPORT 395 Track and Field, Intercollegiate- Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
The intercollegiate track and field class is an advanced program to provide specialized training for competition against other community college teams. Each student will be schooled in the fundamental and advanced technique for their specific events, along with the rules and strategy appropriate for intercollegiate competition. This course may be taken three times for credit

SPORT 405 Volleyball, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced volleyball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 415 Water Polo, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced water polo team activity which provides competition against other community college teams. Fundamentals, rules, and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 420 Wrestling, Intercollegiate-Men 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced wrestling team activity which provides competition against other community college teams, or Frosh/Soph teams from four-year institutions. Techniques, rules, strategies and conditioning appropriate for intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

Team Activities (TMACT)

TMACT 300 Soccer, Indoor 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Indoor Soccer is a physical education course that will cover the basic fundamentals and techniques of the game. Rules, strategy, and social etiquette will also be included. This course may be taken four times for credit.

TMACT 302 Soccer - Outdoor 1 Unit
Formerly: PER 1

Prerequisite: None
Advisory: for Intermediate Soccer, Beginning soccer skills; Advisory for Advanced Soccer is Intermediate soccer skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Soccer covers the fundamentals of the activity. Rules, scoring, position play, tactics, etiquette, and basic skills in trapping, passing, heading, and dribbling are taught. In outdoor soccer, the basic fundamentals and techniques of the game are included along with rules, strategy, and etiquette. In intermediate soccer, the basic fundamentals, rules, etiquette and systems of play are reviewed to enhance the student's understanding and ability of the game. In advanced soccer, a review of the game and game techniques is followed by additional game playing and drills.

TMACT 310 Baseball 1 Unit
Formerly: PER 1

Prerequisite: for Beginning Baseball, None.
Advisory: for Intermediate, Beginning Baseball with a grade of "C" or better; Prerequisite for Advanced: Intermediate Baseball with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Baseball covers the fundamentals, rules, and etiquette of the game. Intermediate baseball will cover techniques of the game, rules, and strategy. Individual and team techniques will be stressed. Students will participate in advanced individual and team techniques in relationship to baseball strategy. This course may be taken four times for credit.

TMACT 311 Theory of Baseball Lab 1 Unit
Prerequisite: PET 342 with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: CSU
54 hours Laboratory
This course is designed to enhance baseball fundamentals and conditioning drills for the advanced baseball player. Focus is placed on development of team skills and individual fundamentals. Specific areas of emphasis will include, but not be limited to: hitting, pitching, defense, and base running. This course may be taken four times for credit.

TMACT 320 Basketball 1 Unit
Formerly: PER 1

Prerequisite: for Basketball, none; Prerequisite: for Intermediate, the student must be able to demonstrate fundamental basketball skills; Prerequisite for Advanced: Intermediate Basketball with a grade of "C" or better or equivalent skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Basketball covers the fundamentals, rules, tactics, and etiquette of the game. In intermediate basketball, a review of the basic fundamentals, tactics, rules, and etiquette will be provided. Systems of play to enhance the student's understanding and ability will be covered. Students will participate in advanced individual and team techniques in relationship to basketball strategy. This course may be taken four times for credit.

TMACT 330 Volleyball 1 Unit
Formerly: PER 1

Prerequisite: for Beginning, none; Prerequisite for Intermediate: Beginning Volleyball with a grade of "C" or better; Prerequisite for Advanced: Beginning and Intermediate Volleyball with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Volleyball will cover the fundamentals of volleyball. Instruction on the pass, set, spike, serve, and block will be provided. Rules, etiquette, and strategy for a six-person team play will be taught. In beginning volleyball, the basic fundamentals and techniques of the game will be reviewed. Beginning level offense, defense, and strategy will be provided as well as rules and etiquette. In intermediate volleyball, intermediate level offense, defense, and strategy will be introduced. In advanced volleyball, advanced level offense, defense, and strategy will be covered. Highly competitive drills and games will be included.

TMACT 334 Grass Volleyball 1 Unit
Formerly: PER 1

Prerequisite: None
Advisory: Beginning volleyball skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
In beginning grass volleyball, the basic fundamentals and techniques of 2 vs. 2 outdoor volleyball are taught.

TMACT 336 Competitive Grass Volleyball 1 Unit

Formerly: PER 1

Prerequisite: Successful completion of Beginning Grass Volleyball or be a "B" rated outdoor USVBA player.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
In intermediate/advanced competitive grass volleyball, the basic fundamentals and techniques of 2 vs. 2 outdoor volleyball will be reviewed. Highly competitive drills and games will be included.

TMACT 340 Football 1 Unit

Formerly: PER 1

Prerequisite: for Advanced, Intermediate football skills or equivalent skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Football covers the fundamentals, techniques, rules, strategy, and etiquette of the game. In advanced football, a review of the basic fundamentals, techniques, rules, strategy, and etiquette of the game will be provided. Students will participate in systems of play to enhance their understanding and ability of the game.

TMACT 341 Theory of Football Lab 1 Unit

Prerequisite: PET 352 with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: CSU
54 hours Laboratory
This course is designed to enhance football fundamentals and conditioning drills for the advanced football player. Focus is placed on the physical development of individual skills and team concepts. Specific areas of emphasis will include but not be limited to: team selection, individual fundamentals and drills to develop those fundamentals, team fundamentals (special teams, defending the pass, defending the run, strategies to advance the ball (on the ground and in the air) and drills to develop those fundamentals, conditioning and strength development. This course may be taken four times for credit.

TMACT 350 Softball, Fast Pitch 1 Unit

Formerly: PER 1

Prerequisite: None
Advisory: Advanced softball skill level.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Fast-pitch softball is a class designed for the competitive player. This physical education class will teach skills, strategies, and rules of Fast-Pitch Softball. This course may be taken four times for credit.

TMACT 352 Softball, Slow Pitch 1 Unit

Formerly: PER 1

Prerequisite: Beginning softball skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Slow Pitch Softball is a physical education course to teach basic fundamentals, rules, and strategies. This course is designed for students who wish to participate in recreational softball. This course may be taken four times for credit.

TMACT 364 Intramural Sports 1 Unit

Formerly: PER 3

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
For students interested in increasing their own sports skills, and in promoting particular sports among other students. Intended to provide recreational, competitive, and instructional opportunities other than current ongoing programs. This course may be taken four times for credit.

TMACT 366 Spirit Squad 2 Units

Formerly: PER 8

Prerequisite: None
Enrollment Limitation: Students must be able to demonstrate cheerleading skills in arm motions, jumps, tumbling, and stunts at the intermediate to advanced level. The students must be able to demonstrate dance skills such as Jazz/Pom/Funk/Hip-Hop and Kick styles of dance at the intermediate to advanced level and possess performance experience.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
18 hours Lecture, 54 hours Laboratory
This course is for intermediate/advanced cheer, stunt, and dance students with experience in tumbling, partner stunts, pyramids, basket tosses/jumps, motion, and dance. Dance members must possess experience in Jazz/Pom/Funk/Hip-Hop and Kick styles of dance. The students compete at regional competitions and collegiate nationals. All members perform at school athletic events. The course may be taken four times for credit. Admittance is determined by audition.

TMACT 370 Water Polo 1 Unit

Formerly: PER 1

Prerequisite: Students must achieve a passing standard on the swim test of 50 yards of freestyle with proficient breathing to the side.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Water Polo will cover the basic fundamentals, skills, and techniques of the game. Rules and strategies will also be included in the course. This course may be taken four times for credit.

Physical Therapist Assistant P T A

Associate in Science Degree

Division of Science and Allied Health
Mary Turner, Dean
Mohr Hall 18
916-558-2271

Career Opportunities

This program prepares the student for employment as a physical therapist assistant. Physical therapist assistants work under the supervision of physical therapists in a wide variety of health care settings. These include hospitals, rehabilitation centers, private practices, skilled nursing, and extended care facilities. They treat clients with movement, strength, and coordination disorders in order to improve function, decrease pain, and increase independence. The scope of practice includes activities such as administration of physical modalities, therapeutic exercise, ambulation training, and assisting patients with transfer and functional activities. Physical therapist assistants must recognize common medical disorders and be able to assess whether patients are progressing appropriately within the treatment plan determined by the physical therapist.

Recommended Preparation

High school and college preparatory courses including algebra, biology, chemistry, and physiology are recommended. Volunteer work or observational experience in a physical therapy clinic is recommended in order to assist students in making a career decision. Medical Language (AH 110) is advised prior to enrollment in the program.

Program Information

The physical therapist assistant (PTA) program is at the Associate in Science Degree level, which requires completion of the required program plus general education requirements. These include prerequisite courses (14.5 units), PTA courses (32.5 units), Allied Health courses (3 units), and specific general education courses required for the program (9 units). Students must also take additional courses to meet graduation requirements of the college (10-19 units). PTA and Allied Health courses are offered Monday through Thursday in the evening, and are scheduled sequentially for four semesters and one summer session. Supervised clinical work experiences are integrated throughout the program. Introduction to Clinical Practice I and II (PTA 142 and 152) are each full time 6-week clinical affiliations at the end of fall and spring semesters of the second year. Clinical sites are located throughout the greater Sacramento and Northern California region.

Enrollment Requirements

Enrollment in the Physical Therapist Assistant program is based on completion of prerequisite courses. Grades of "C" or better and a minimum cumulative GPA of 2.5 are required in the prerequisite courses. Applicants must submit applications and official transcripts to the Science & Allied Health Division. Approximately 30 students are enrolled in the program annually. Prerequisite courses include:

1. BIOL 430 & 431 (Anatomy/Physiology) or equivalent courses within 10 years with grades of "C" or better and a cumulative GPA of 2.5 in these two courses.
2. Completion of PTA 100 (Introduction to PTA) and ENGWR 300 (or ESLW 340).
3. Completion of ENGRD 110 with a grade of "C" or better or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA degree or higher.
4. If students have completed all other prerequisites, but have BIOL 431 in progress at the time of application, they will be considered eligible, pending receipt of final grade report.

Enrollment Process

Eligible students are selected for the program according to the following steps: Students may submit applications between March 1 and April 15 to be considered for enrollment for the Fall semester. Students may submit applications between March 1 and April 15 to be considered for enrollment for the Fall semester. In the event there are more applicants than spaces available, students who meet the enrollment requirements will be entered into a random selection pool. After receiving notice of acceptance for enrollment, students will be required to submit a completed physical examination, TB test, evidence of immunizations, first aid, and current CPR certificate for health care personnel. Background checks and drug screens may be required prior to clinical affiliations. Students must also provide

CELEBRATING 90 YEARS

documentation of capability to perform essential job-related functions of a physical therapist assistant.

Accreditation
The Physical Therapist Assistant program has been granted accreditation by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (APTA) effective November 1, 2000 - December 31, 2010.

Licensure
Graduates of this program are eligible for the National Examination for Physical Therapist Assistants. After successful completion of the examination and all requirements of the Physical Therapy Board of California, graduates may be licensed to work as physical therapist assistants in California.

Additional Information
Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program and the field of physical therapy. Current information on program policies and procedures, clinical sites, and data on graduation rates, licensure, and employment may be obtained through the program coordinator. Call (916) 558-2298 or visit the SCC Web Site at http://www.scc.losrios.edu and follow the links to the Physical Therapist Assistant department.

Cost of the Program:
The cost of the program includes enrollment fees, which are subject to change. Other estimated costs include: books and supplies $900.00; physical examination and immunizations $250.00; malpractice insurance $30.00; uniforms $50.00; and application for license examination $600.00. Students must also plan for travel costs to and from the clinical facilities, many of which are outside the Sacramento area. Some students may need to arrange for housing during full time clinical affiliations.

Transfer Students
Students from other accredited PTA programs may apply to transfer to the Sacramento City College PTA program. Enrollment depends upon evidence of completion of equivalent academic and clinical course work and on space available in the program.

Required Program

Prerequisite Courses:	**Units**
PTA 100, Introduction to Physical Therapist Assistant	1.5
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
ENGWR 300, College Composition (3) or ESLW 340, Advanced Composition (4)	3-4
ENGRD 110 Comprehension Strategies and Vocabulary Development For College	3[1]
First Year, Fall Semester:	
PTA 110, Kinesiology for PTA Students	3
PTA 111, Kinesiology Laboratory for PTA Students	2
AH 100, Professional Ethics of Health Team Members	1
First Year, Spring Semester:	
PTA 120, Beginning Procedures - Physical Therapy Modalities and Procedures	2.5
PTA 121, Disorders I - Selected Disorders Commonly Seen in Physical Therapy	3
PTA 122, Introduction to Clinical Practice	3
Summer Session:	
PTA 130, Intermediate Procedures, Physical Therapy Modalities and Procedures	1
AH 106, Communication for Allied Health Careers	2
Second Year, Fall Semester:	
PTA 140, Therapeutic Exercise - Exercise Programs, Protocols and Procedures	3
PTA 141, Disorders II - Nervous Systems Disorders	2
PTA 142, Clinical Practicum I	4
Second Year, Spring Semester:	
PTA 150, Functional Activities & Gait - Activities of Daily Living and Gait Training Techniques	3
PTA 151, Advanced Procedures-Advanced Modalities and Treatment Procedures	1
PTA 152, Clinical Practicum II	4
General Education Courses:	
SOC 300, Introductory Sociology	3
FCS 340, Nutrition	3
PSYC 370, Human Development: A Life Span (3) or FCS 324, Human Development: A Life Span (3)	3
Total Required Units	**61 - 62**

[1] *ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an Associate Degree or higher.*

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of all components of the required program.

Physical Therapist Assistant (PTA)

PTA 100 Introduction to Physical Therapist Assistant 1.5 Units

Formerly: PTA 50

Prerequisite: None
27 hours Lecture
This course provides an introduction to the field of physical therapy and the role of the physical therapist assistant within the health care delivery system. Definitions of physical therapy, history and development of the profession, and the diverse types of clinical practice and employment settings are explored. The mission and goals of the professional organization, standards of practice, laws and regulations, and licensure requirements are introduced. Course requirements include an independent observational experience at a physical therapy facility and a written paper.

PTA 110 Kinesiology for PTA Students 3 Units

Formerly: PTA 52

Prerequisite: Enrollment into the Physical Therapist Assistant Program and completion of PTA 100, BIOL 430 and 431, and ENGWR 300 (or ESLW 340) with grades of "C" or better, and a cumulative GPA of 2.5 in these courses; completion of ENGRD 110 (or eligibility for ENGRD 310, as determined by the reading assessment process) for all applicants who do not have an A.A. Degree or higher.
Corequisite: Concurrent enrollment in PTA 111.
Advisory: Allied Health 110.
54 hours Lecture
This course involves utilizing knowledge of the skeletal, articular, muscular, and nervous systems to analyze human posture and movement. Components of joint structure and function, muscle action, motor and reflexive development, balance mechanisms, and sensory influence are applied to analysis of spinal and extremity motions, as well as common functional activities. Theories related to kinetics and kinematics of gait are included. Kinesiological principles are presented as they apply to the practice of physical therapy, and the roles and responsibilities of the physical therapist assistant. A written paper is required.

PTA 111 Kinesiology Laboratory for PTA Students 2 Units

Formerly: PTA 53

Prerequisite: Enrollment into the Physical Therapist Assistant Program and completion of PTA 100, BIOL 430 and 431, and ENGWR 300 (ESLW 340) with grades of "C" or better, and a cumulative GPA of 2.5 in these courses; completion of ENGRD 110 (or eligibility for ENGRD 310, as determined by the reading assessment process) for all applicants who do not have an A.A. Degree or higher.
Corequisite: Concurrent enrollment in PTA 110.
108 hours Laboratory
This course utilizes a problem solving approach to analysis of human movement emphasizing application of kinesiological principles to the field of physical therapy, and the role of the physical therapist assistant. Students practice procedures for performing and recording goniometric measurements, tests for flexibility/muscle length, muscle performance, sensation, and analysis of posture and gait. Physical therapy procedures such as range of motion, positioning and draping, and body mechanics are introduced. The influence of neuromotor development, balance mechanisms, and sensory systems on posture and movement is included. Students practice skills and activities with each other in a laboratory setting under instructor supervision. A class presentation is required.

PTA 120 Beginning Procedures - Physical Therapy Modalities and Procedures 3.5 Units

Formerly: PTA 54

Prerequisite: Prerequisite: PTA 110 and 111 with grades of "C" or better.
45 hours Lecture; 54 hours Laboratory
This course introduces the theory and application of physical therapy modalities and procedures to include thermal agents and mechanical modalities, traction, hydrotherapy, external compression, wound management, transfers and gait training, and utilization of standard precautions. Students develop skill in gathering data regarding vital signs, functional ability in gait and transfers, pain status, and integumentary integrity. Documentation procedures, including use of medical abbreviations and terminology, are practiced. Through laboratory activities and problem-solving with case studies, students develop skills in utilizing modalities and procedures in comprehensive implementation of the physical therapy treatment plan.

PTA 121 Disorders I - Selected Disorders Commonly Seen in Physical Therapy 3 Units

Formerly: PTA 55

Prerequisite: Prerequisite: PTA 110 and PTA 111 with grades of "C" or better.
54 hours Lecture
This course is designed as an overview of musculoskeletal, cardiovascular, respiratory, renal, endocrine, immune and integumentary disorders relevant to the practice of physical therapy. Additional topics include: infectious disease, genetic disorders, neoplasms, and the effect of developmental, psychosocial, and cultural factors. Etiology, signs and symptoms, prognosis, and medical/surgical interventions for disorders are surveyed. Approaches to physical therapy assessment and treatment are introduced. Emphasis is placed on utilization of knowledge of medical disorders by physical therapist assistants within the context of implementing a comprehensive treatment plan.

PTA 122 Introduction to Clinical Practice 3 Units

Formerly: PTA 56

Prerequisite: Prerequisite: PTA 110 and PTA 111 with grades of "C" or better.
18 hours Lecture; 108 hours Laboratory
This course provides students with the initial opportunity to observe physical therapy practice and perform selected delegated responsibilities with guidance, direction, and supervision. Students complete 56 hours in each of two different clinical settings. Assignments are determined by the program coordinator, and may be in acute, sub-acute, out-patient, skilled nursing and rehabilitation, or other type of physical therapy practice. Seminar hours include orientation to the clinical practice setting, discussion of clinical experiences and clinical practice issues, and self assessment of performance. The course is graded on a Credit/No Credit basis.

PTA 130 Intermediate Procedures, Physical Therapy Modalities and Procedures 1 Unit

Formerly: PTA 57

Prerequisite: Prerequisite: PTA 120, PTA 121, and PTA 122 with grades of "C" or better.
9 hours Lecture; 27 hours Laboratory
In this course, students will study the theory and application of massage, soft tissue mobilization techniques, biofeedback, and pneumatic compression pumps utilized by physical therapist assistants. Through laboratory practice and problem solving with case studies, students will develop skills in utilizing these modalities and procedures in comprehensive implementation of the physical therapy treatment plan.

PTA 140 Therapeutic Exercise - Exercise Programs, Protocols and Procedures 3 Units

Formerly: PTA 61

Prerequisite: PTA 130 with a grade of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course presents the theory, rationale, and implementation of therapeutic exercise procedures, programs, and protocols commonly used in physical therapy. Manual and mechanical approaches to stretching, strengthening, endurance, balance, and coordination are included. Principles of teaching and learning, theories of motor control and motor learning and neuro-development approaches to treatment are introduced. Documentation practice is continued and expanded to include home programs and progress summaries. Knowledge of kinesiology and medical disorders is integrated as students apply therapeutic exercise principles to collaborative case-based learning activities that emphasize the role of the physical therapist assistant in implementing a comprehensive physical therapy treatment plan.

PTA 141 Disorders II - Nervous Systems Disorders 2 Units

Formerly: PTA 65

Prerequisite: PTA 130 with a grade of "C" or better.
36 hours Lecture
This course is designed as an overview of central and peripheral nervous system disorders relevant to the practice of physical therapy. Etiology, signs and symptoms, prognosis, and medical/surgical interventions are surveyed. Approaches to physical therapy assessment and treatment are introduced. Emphasis is placed on utilization of knowledge of medical disorders by physical therapist assistants within the context of implementing a comprehensive treatment plan.

PTA 142 Clinical Practicum I 4 Units

Formerly: PTA 66

Prerequisite: PTA 130, AH 106 and 100 with grades of "C" or better.
240 hours Laboratory
This course provides students with the opportunity to perform delegated patient care responsibilities in a supervised physical therapy clinical setting. This is the first full-time clinical assignment during the program. Students complete a clinical affiliation of six weeks (40 hours per week) at a facility assigned by the program coordinator. The placement may be in an acute, sub-acute, out-patient, skilled nursing and rehabilitation, or other type of physical therapy practice. Additionally, six seminar hours are required. The course is graded on a Credit/No Credit basis.

PTA 150 Functional Activities & Gait - Activities of Daily Living and Gait Training 3 Units

Formerly: PTA 62

Prerequisite: PTA 140, PTA 141, and PTA 142 with grades of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course presents the application of functional exercise and gait activities, with emphasis on the physical therapist assistant's role in comprehensive treatment of patients with cardiopulmonary disorders, adult or pediatric neurological disorders, or amputation. Data collection activities related to assessing cardiopulmonary status, functional abilities, gait, equipment and assistive devices, and home and community environment are included. Students practice implementation of treatment to include endurance training, pulmonary hygiene techniques, functional activities and gait, activities of daily living, developmental activities, prosthetics and orthotics, management of wheelchairs and other equipment, and patient/family education.

PTA 151 Advanced Procedures- Advanced Modalities and Treatment Procedures 1 Unit

Formerly: PTA 64

Prerequisite: PTA 140, 141, and 142 with grades of "C" or better.
9 hours Lecture; 27 hours Laboratory
This course introduces theory and application of electrotherapeutic modalities utilized by physical therapist assistants to include high volt, interferential, iontophoresis, transcutaneous nerve stimulation, and neuromuscular stimulation. Practice issues such as the role of the physical therapist assistant within the health care delivery system, application of laws and ethical principles, administrative activities, and social responsibility are explored. Procedures for license application, resume preparation, and interviewing are included.

PTA 152 Clinical Practicum II 4 Units

Formerly: PTA 67

Prerequisite: PTA 140, 141, and 142 with grades of "C" or better.
240 hours Laboratory
This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. This is the second full-time clinical assignment during the program. Students complete a clinical affiliation of six week (40 hours per week) at a facility assigned by the program coordinator. The placement may be in an acute, sub-acute, out-patient, skilled nursing and rehabilitation, or other type of physical therapy practice. This assignment will be at a facility which differs from the first full-time clinical assignment. Additionally, six seminar hours are required. The course is graded on a Credit/No Credit basis.

Physics PHYS

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

NOTE: The University of California has a credit restriction on certain combinations of physics courses. See your counselor for detailed information on the current UC Articulation Agreement.

PHYS 310 Conceptual Physics 3 Units

Formerly: PHYS 10

Prerequisite: Eligibility for ENGWR 100 and ENGRD 310.
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after PHYS 350 or 410)/CSU
54 hours Lecture
This course presents the physical laws that tie together the diverse phenomena of nature. A descriptive approach, making limited use of basic algebra, is used to increase the students' understanding of the everyday physical world.

PHYS 350 General Physics 4 Units

Formerly: PHYS 5A

Prerequisite: High school trigonometry or MATH 334 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (PHYS 350 and 360 or PHYS 410, 420, 430 - maximum credit one series)/CSU
54 hours Lecture; 54 hours Laboratory
This course is a non-calculus based survey of general physics. It is designed for biological science students, including those in pre-medical, pre-dental, optometry, agriculture and forestry programs. Topics include kinematics, Newton's Laws, dynamics of rigid bodies, work and energy, momentum, rotational motion, fluids, and oscillatory motion.

PHYS 360 General Physics 4 Units

Formerly: PHYS 5B

Prerequisite: PHYS 350 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (PHYS 350 and 360 or PHYS 410, 420, 430 - maximum credit one series)/CSU
54 hours Lecture; 54 hours Laboratory
This course is non-calculus based survey of general physics. It is designed for biological science students, including those in pre-medical, pre-dental, optometry, agriculture and forestry programs. Topics include electric charge, electric fields, AC and DC circuit theory, electromagnetism, optics, wave theory and quantum physics.

PHYS 410 Mechanics of Solids and Fluids 5 Units

Formerly: PHYS 4A

Prerequisite: None
Corequisite: MATH 401.
General Education: AA/AS Area A.
Acceptable for credit: UC (PHYS 350 and 360 or PHYS 410, 420, 430 - maximum credit one series)/CSU
54 hours Lecture; 54 hours Laboratory; 18 hours Discussion
This course covers linear and rotational motion, Newton's Laws, dynamics of rigid bodies, gravitation, harmonic motion and fluids. This course is for physics, mathematics, chemistry, architecture, engineering, and computer science majors.

PHYS 420 Electricity and Magnetism 5 Units

Formerly: PHYS 4B

Prerequisite: PHYS 410 and MATH 401 with grades of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (PHYS 350 and 360 or PHYS 410, 420, 430 - maximum credit one series)/CSU
54 hours Lecture; 54 hours Laboratory; 18 hours Discussion
The course presents an in-depth treatment of electricity and magnetism and stresses problem-solving. Topics covered include charge and electric force, electric fields, electrical potential, magnetism, electromagnetic induction, DC and AC circuit theory. This course is physics, mathematics, chemistry, architecture, engineering, and computer science majors.

PHYS 430 Heat, Waves, Light and Modern Physics 5 Units

Formerly: PHYS 4C

Prerequisite: PHYS 410 with a grade of "C" or better.
Corequisite: MATH 402.
General Education: AA/AS Area A.
Acceptable for credit: UC (PHYS 350 and 360 or PHYS 410, 420 and 430, maximum credit one series)/CSU
54 hours Lecture; 54 hours Laboratory; 18 hours Discussion
Topics covered are thermodynamics, wave theory, light and sound, geometrical and physical optics (including lenses and mirrors), quantum physics and high-energy physics. This course is intended for physics, mathematics, chemistry, architecture, and engineering majors.

PHYS 494 Topics in Physics .5-4 Units

Formerly: PHYS 22

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in physics. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

Political Science POLS

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

POLS 301 Introduction to Government: United States 3 Units

Formerly: POLS 1

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B1.
Acceptable for credit: UC (POLS 301 or 481, maximum one course)/CSU
54 hours Lecture
This course will examine principles and problems of government, the political process, and democracy as practiced in the United States. Fulfills state requirements in federal, state, and local government.

POLS 302 Introduction to Government: Foreign 3 Units

Formerly: POLS 2

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
The political systems of selected nations such as Great Britain, France, Germany, Russia, Japan, Mexico, Peoples' Republic of China, India, South Africa, and Cuba are analyzed. The course will also compare the formation of political institutions, the role of political culture, political parties, and public policy.

POLS 310 Introduction to International Relations 3 Units

Formerly: POLS 10

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2.
Acceptable for credit: UC (POLS 310 or 480, maximum one course)/CSU
54 hours Lecture
This course will examine the problems, motivating forces, and techniques of conflict resolution among actors within the global nation-state system. Particular emphasis is placed on comparing perspectives among developed and underdeveloped nations.

POLS 320 Introduction to Political Theory 3 Units

Formerly: POLS 3

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the theoretical approaches to politics and ways of thinking about politics, covering important thinkers and topics during the ancient, medieval, and modern periods.

POLS 322 Political Ideologies 3 Units

Formerly: POLS 15

Prerequisite: None
Advisory: Eligibility for ENGWR 300 or ENGWR 100 or ESLR 320 and ESLW 320 is advised.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course will cover comparative, conceptual, and historical analyses of competing ideological approaches to government. Emphasis will be on the theories, values, and assumptions that make up a political ideology and the effect of such theories on a political system.

POLS 340 Women in Politics 3 Units

Formerly: POLS 19

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
Topics of this course include a study of the past and the current influences on the political and legal status of women; an exploration of women's participation in the political process; and an examination of political theory and strategy as it relates to women.

CELEBRATING 90 YEARS

POLS 480 Introduction to International Relations - Honors 3 Units

Formerly: POLS 10H

Prerequisite: Admission to Honors Program required.
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC (POLS 310 or 480, maximum one course)/CSU
54 hours Lecture
This course will examine the principles and problems of government, the political process and democracy as practiced in the United States. The class is conducted in a seminar format and requires a higher level of student academic engagement of course preparation with at least four texts and readers. This section uses an intensive instructional methodology and is designed to maximize the level of students' depth of subject-based knowledge. This course fulfills federal, state, and local government content requirements.

POLS 481 Introduction to Government: United States - Honors 3 Units

Prerequisite: Admission to the Honors Program; 3.0 GPA or eligibility for ENGWR 300.
General Education: AA/AS Area B1
Acceptable for credit: UC (POLS 301 or 481, maximum one course)/CSU
54 hours Lecture
This course will examine the principles and problems of government, the political process and democracy as practiced in the United States. The class is conducted in a seminar format and requires a higher level of student academic engagement of course preparation with at least four texts and readers. This section uses an intensive instructional methodology and is designed to maximize the level of students' depth of subject-based knowledge. This course fulfills federal, state, and local government content requirements.

POLS 494 Topics in Political Science .5-4 Units

Formerly: POLS 47

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area B2
Acceptable for credit: UC (pending UC approval after transfer)/CSU
9-54 hours Lecture
Content will differ each time course is offered. The objective is to focus content on issues of local, national or international significance at the time of offering course. (Credit for History 494 and Political Science 494, but not both.)

POLS 497 Internship in Political Science 1-4 Units

Formerly: POLS 48

Prerequisite: None
Advisory: Concurrent enrollment in or completion of courses related to the major.
Acceptable for credit: UC/CSU
18 hours Lecture; 75 hours Laboratory
18 hours lecture and 75 hours of related paid activity or 60 hours of volunteer activity for one unit; 75 or 60 hours of activity for each additional unit. This course consists of a supervised internship and study in political, governmental, or related organizations. This course may be repeated for credit as long as there is new or expanded learning on the job.

Pre-Professional Majors

Sacramento City College strongly advises prospective students, who are preparing to study a professional major, to consult with a counselor.

Law

"Pre-law" is not a major but rather a term that describes a student interested in applying for admission to a law school. There are no specific major or specific courses for pre-law students. A student's overall GPA is important when applying for admission to a law school; therefore, a pre-law student should consider a major that he/she enjoys and can successfully complete. It is advisable to consider a major that can be used as an alternative to law school or can be used in coordination with the law degree.

As a pre-law student, you should plan a course of study that will give you a broad cultural background, develop the ability to think critically, gain an understanding of people and institutions, and know how to gather and weigh facts to solve problems and think creatively. They should be able to read rapidly with comprehension, express themselves clearly, completely, and concisely, both orally and in writing. Suggested curriculum should include: English, history, philosophy, mathematics and logic, science, economics, government, psychology, accounting, and communication.

Most law schools require students to have a bachelor's degree, demonstrate academic ability as evidenced by the Law School Admission Test (LSAT) scores, and a competitive grade point average. Admission to the University of California Schools of Law, Berkeley, Davis, Hastings, and San Francisco requires a Bachelor's degree. Admission to McGeorge School of Law, Sacramento requires completion of approximately three-fourths of a four-year program, usually 90 semester units. Students should meet with a counselor to plan a course of study.

Pharmacy

Pharmacy education requires a minimum of six years of college.

Admissions Requirements:

Education varies: minimum 60 units, a bachelor's degree preferred from an accredited institution

Required Courses: BIOL 402, 422; CHEM 400, 401; 425, 426 or 420, 421; MATH 350, 351 or 400, 401; PHYS 410, 420

Health Science Education Dentistry, Medicine, Optometry, Veterinary Medicine

Students planning to attend a dental, medical, optometry, or veterinary school can achieve an undergraduate degree in any major. However, it is highly recommended that students select majors or coursework related to dentistry, medicine, optometry, or veterinary medicine to meet admission requirements and to be better prepared for the profession.

In addition to a competitive grade point average, professional schools base their selection on motivation, extracurricular activities, work experience related to the health sciences, test scores, application, personal statement, letters of recommendation, and interview.

CELEBRATING 90 YEARS

Dentistry

Dental education requires a minimum of seven years of college.

Admissions Requirements:

Dental Admission Test (DAT)

Education varies: 90-96 semester units completed from an accredited college, baccalaureate degree preferred;

Required courses: BIOL 402, 422; CHEM 400, 401; 425, 426 or 420, 421; PHYS 350, 360

Medicine

Medical education requires a minimum of eight years of college and residency.

Admission Requirements:

Medical College Admission Test (MCAT)

Education varies: at least 90 semester hours /120-140 quarter hours or bachelor's degree from an accredited institution

Required Courses: BIOL 402, 422; CHEM 400, 401, and 425, 426 or 420, 421; MATH 350, 351 or 400, 401; PHYS 350, 360

Optometry

Optometry education requires a minimum of seven years of college.

Admissions Requirements:

Optometry Admission Test (OAT)

California schools require a bachelor's degree from an accredited institution

Required Courses: BIOL 402, 422, 440; CHEM 400; 425, 426 or 420, 421; MATH 350, 351 or 400, 401; PHYS 350, 360; PSYC 300; STAT 300

Teacher Education

There are two types of credentials for teaching in the public schools of California, each permitting instruction in grades K-12. One type is the Multiple Subject Credential for teachers in a self-contained classroom, in general required for most elementary school teachers (grades K-6). The other is the Single Subject Credential for teachers responsible for only one subject, in general for most junior and senior high school teachers (grades 7-12).

For a Multiple Subject Credential, students must satisfy the following: (1) Bachelor's or higher degree, (2) an approved professional preparation program including successful student teaching with a minimum grade of C, (3) CBEST test, (4) teaching of reading, (5) Reading Instruction Competency Assessment (RICA), (6) U.S. Constitution, and (7) subject-matter competency (program or exam).

For a Single Subject Credential students must satisfy the following: (1) Bachelor's or higher degree, (2) an approved professional preparation program including student teaching, (3) CBEST test, (4) teaching of reading, (5) U.S. Constitution, and (6) subject-matter competence (program or exam). The Commission-approved subject matter programs are: Agriculture, Art, Business, English, Health Science, Home Economics, Industrial and Technology Education, Foreign Languages, Mathematics, Music, Physical Education, Science (Biological Sciences, Chemistry, Geosciences, Physics), and Social Science. Subject matter programs vary at each four-year institution.

Sacramento City College strongly encourages students to meet with a counselor to obtain appropriate requirements for the four-year institution of their choice.

Social Welfare

Students who desire to work in social welfare must first complete a baccalaureate degree and then a master's degree in Social Work/Welfare (MSW). The MSW is required to work in such fields as family counseling, medial and psychiatric social work, or child welfare services. The MSW can also prepare students for licensure as a Licensed Clinical Social Worker (LCSW).

There is no specific lower-division preparation in this field, but suggested courses include: social sciences, anthropology, psychology, sociology, economics, and possibly a foreign language and/or completing a lower-division general education pattern.

Veterinary Medicine

Veterinary medicine education requires a minimum of seven years of college.

Admissions Requirements:

Graduate Record Examination (GRE)

Education: minimum of 72 semester units from an accredited institution

Required Major Preparation: BIOL 402, 422, CHEM 400, 401, 425, 426, PHYS 350; STAT 300; ENGWR 300 and 301; COMM 301; Humanities and Social Sciences - nine units.

Psychology PSYC

Associate in Arts Degree

Division of Behavioral and Social Science
J. Frank Malaret, Dean
Rodda North 226
916-558-2401

Program Information:

This degree program is designed to serve the needs of a wide variety of Sacramento City College students who are pursuing study in the field of Psychology. The primary aim of this program is to provide a clearly articulated and comprehensive curricular track for students preparing to transfer to baccalaureate programs in Psychology. An additional specific aim of this program is to expose "undecided" students to the core principles and practices of the field in order to build a foundation for their future personal, academic, or vocational paths. Among the many options, this foundation would be appropriate for entry into a variety of paraprofessional careers and careers in related fields.

Career Opportunities

The Psychology degree is designed to facilitate students' successful transfer to BA programs and, in so doing, prepare them for advanced study in a variety of graduate programs. Psychologists with graduate degrees and professional certificates have a broad range of employment opportunities including, but not limited to, clinical practice, research, and teaching. Clinical psychologists work in a variety of settings and with a wide range of clients. Research psychologists work in a range of fields associated with the study of human behavior,including biomedical, sports psychology, and cognitive neuroscience. The A.A. degree in psychology can also provide a foundation for students interested in working in paraprofessional careers and careers in related fields.

Required Program	**Units**
PSYC 300, General Principles	3
PSYC 310, Biological Psychology	3
PSYC 320, Social Psychology	3
PSYC 335, Research Methods Psychology	3
STAT 300, Introduction to Probability and Statistics	4
A minimum of 3 units from the following:	3
One additional transfer-level psychology course	
Total Units Required	**19**

PSYC 300 General Principles 3 Units

Formerly: PSYC 1

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area B2.
Acceptable for credit: UC (PSYC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course introduces students to foundation principles and current trends in the field of psychology. Concepts that are explored include methods of psychological inquiry, the biological basis of behavior, motivation, perception, consciousness, learning and memory, personality, socialization, and mental illness. This course is designed for psychology majors and other students who desire a broad overview of the field.

PSYC 310 Biological Psychology 3 Units

Formerly: PSYC 2

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100; PSYC 300.
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture
The primary focus of this course is on the human nervous system and how it functions to affect behavior. This course provides an in-depth examination of brain structure, neural development, neural communication, brain-endocrine interactions, and the specialization of brain function. To supplement the study of brain anatomy, students utilize sheep brains to identify major structures and divisions of the nervous system. Relationships between brain function and perception, movement, cognition, learning and memory, language, rhythms of sleep and activity, emotion, and consciousness are examined. The neural bases of mood, personality disorders, and psychosis are also addressed.

CELEBRATING 90 YEARS

PSYC 311 Biological Psychology Laboratory 1 Units

Prerequisite: PSYC 310 with grade of "C" or better or concurrent enrollment in PSYC 310.
Acceptable for credit: CSU
54 hours Laboratory
This course involves the applied study of the nervous system, focusing on its anatomy, physiology, and biochemistry. The course features sheep brain dissection and an interactive investigation of psychophysics, especially sensation and perception. Finally, the course provides students with practical experience in the methods and techniques of biological and physiological psychology. Topics include anatomy, physiology, and organization of the nervous system with special emphasis on the brain; anatomy and physiology of the neuron; physiology of nerves and nerve conduction; the biochemistry of the synapse; anatomy and physiology of sensory systems; and finally methods of investigating psychophysical phenomena.

PSYC 314 Animal Behavior 3 Units

Prerequisite: None
Advisory: ANTH 300, BIOL 100, PSYC 300 with a grade of "C" or better.
General Education: AA/AS Area A
Acceptable for credit: CSU
54 hours Lecture
This course is designed for anyone who is interested in or has ever lived with and loved animals. Those pursuing careers in psychology, biology, zoology, animal laboratory services, and veterinary technology will find this course interesting and useful. It consists of a broad survey of general topics and current research in the related fields of animal behavior, animal cognition, animal communication, interactions between human and non-human animals, and conservation biology. Topics addressed in this course include: the principles of evolution; history of the relationship between humans and non-humans; communication between humans and other animals; animals as competitors and resources; research animals and bioethics; animals as companions; animals in therapy and service; behavior of wild animals in zoos; and the future prospects for positive interactions between humans and non-human animals. The course is designed to foster a better understanding of non-human animals, nurture a respect for them, and create an ethic that emphasizes a respect for all life. The course will involve field trips to animal facilities, such as the Sacramento Zoo and will include an observational research component.

PSYC 316 Cognitive Psychology 3 Units

Prerequisite: PSYC 300 with a grade of "C" or better.
Advisory: BIOL 100 with a grade of "C" or better.
General Education: AA/AS Area A
Acceptable for credit: CSU
54 hours Lecture
The course will present an historical retrospective into the development of the philosophy of science, the scientific method, and early perspectives on learning, memory, and the structure of thought. The course will explore contemporary areas of perception, learning, memory, problem solving, creativity, cognitive development, neuroscience, neuroimagery and general linguistics. Current controversies related to the proposed structure of thought in non-linguistic species will be addressed. Upon completion of this course, students will possess an improved appreciation for the complexity of the brain and the thought processes of humans and other "large-brained" species.

PSYC 320 Social Psychology 3 Units

Formerly: PSYC 3

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 310 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides students with an initial introduction into the scientific study of how people's feelings, thoughts, and behaviors are influenced by others. Students become familiar with the major domains of social psychology and the relevance of social psychology to daily life. Topics covered include conformity, group processes, mass communication, propaganda, the law, social cognition and perception, aggression, prosocial behavior, prejudice, liking and loving.

PSYC 335 Research Methods in Psychology 3 Units

Formerly: PSYC 4

Prerequisite: ENGWR 100 and PSYC 300 with grades of "C" or better.
Advisory: STAT 300.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course introduces students to the methods and ethics of doing research in the behavioral sciences, specifically psychology, from a theoretical and practical approach. The course includes designing and conducting both experimental and non-experimental studies, doing descriptive statistical analyses, hypothesis testing, and using a scientific style of writing to present the results. The projects in the laboratory portion of the course will provide opportunities to research various behavioral science topics of the student's interest and provide experience with "hands-on" data collection, data analysis, results interpretation and report writing.

PSYC 340 Abnormal Behavior 3 Units

Formerly: PSYC 15

Prerequisite: PSYC 300 or 350 with a grade of "C" or better.
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
In this course, students will explore the broad questions of normality and abnormality and investigate specific mental, emotional and behavioral difficulties. They will learn current approaches to psychological intervention including present community mental health practices. Course material considers the contribution of social, biological and psychological factors to the development and persistence of behavior disorders.

PSYC 353 Psychology of Adjustment 3 Units

Advisory: Eligibility for ENGRD 310 and ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
In this course, students will explore the core concepts in psychology and apply them to everyday life experiences. The focus of this course will be on self-development and self-awareness, and students will learn how to use psychological concepts to live more fully and productively. Students will also learn to analyze and think critically about psychological theories and research, and they will learn to use these concepts in an informed manner. Topics include stress and coping, substance abuse, psychological disorders and treatment, motivation and emotions, learning and behavior change, attitudes and values, interpersonal relationships, and lifespan development.

PSYC 355 Love and Intimacy 2 Units

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This course is an investigation of the human desire for affiliation and affection. Emphasis will be placed on types of love, levels of bonding, differences between love and relationship addiction, and ways in which individuals frustrate their desire for intimacy and/or exit from potentially intimate encounters in life.

PSYC 356 Human Sexuality 3 Units

Formerly: PSYC 25

Prerequisite: None
Advisory: Completion of ENGRD 310 or ENGWR 100 with a grade of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an overview of human sexuality from birth to adulthood. The subject will be examined from a cultural, physiological, sociological, and psychological perspective in order to provide students with a solid base of information about sex and their own sexuality enabling them to make healthy and responsible choices and decisions throughout their lives.

PSYC 358 Principles of Interpersonal Relations 3 Units

Formerly: PSYC 40

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100 with a grade of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
This course studies the principles involved in effective interpersonal relationships. Topics include interpersonal feedback, self-disclosure, the role of emotions in relationships, the art of listening, and the ability to challenge others toward growth of productivity. The focus of the course will be on concepts useful to the students in his/her face-to-face relationships at home, school, and work.

PSYC 360 Psychology of Women 3 Units

Formerly: PSYC 28

Prerequisite: None
Advisory: Completion of ENGRD 310 or ENGWR 100 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course studies the psychological effects of society upon women. An emphasis is placed on the interplay between gender and race, ethnicity, class, age, sexual orientation, and physical and mental ability. The course addresses a variety of topics including gender stereotypes and their connections to sexism, gender roles and expectations, biological bases of sex, gender throughout the lifespan, the physical and mental health of women, women and work, and violence against women. The course also emphasizes the importance of critically evaluating theory and research on sex and gender.

PSYC 363 Psychology of Women in Film 3 Units

Formerly: PSYC 42

Prerequisite: None
Advisory: ENGRD 310, ENGWR 100, and PSYC 300 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
From its earliest days, Hollywood has played an important role in shaping and reflecting cultural assumptions and fears. This course examines the assumptions and values that underlay the portrayal of women and the messages that medium conveys about the nature and role of femininity. In addition to viewing a variety of film genres, assignments will include readings from sociology, psychology, linguistics, and critical theory.

PSYC 367 Psychology of Minorities 3 Units

Formerly: PSYC 39

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 310 with a grade of "C" or better
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course studies the individual and collective impact of minority group status on an individual and group's behavior and mental

processes. The psychological issues, concerns, and needs of minority persons are also covered. Minority persons include African-Americans, Asian Americans, Hispanic Americans, Native Americans, gays & lesbians, the elderly, and the disabled. This course is useful for students majoring in psychology, sociology, education, ethnic studies, and the helping/allied professions.

PSYC 370 Human Development: A Life Span (Same as FCS 324) 3 Units

Formerly: PSYC 18

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100, or ESLR 340 and ESLW 340 and ESL 114 with grades of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
Students will study the physical, cognitive, social, and emotional development of humans from conception through the life span. Emphasis will be placed on the practical application of developmental principles. This is a foundation course for careers in the educational, social, psychological, and medical fields. (Students may receive credit for FCS 324 or PSYC 370 but not both.)

PSYC 374 Psychology of Aging: Adult Development and Aging (Same as FCS 332 and GERON 302) 3 Units

Formerly: PSYC 26

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100, or ESLR 340 and ESLW 340 and ESL 114; and FCS 324; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: UC (PSYC 374 or FCS 330, maximum one course; PSYC 374 or SOC 335, maximum one course)/CSU
54 hours Lecture
Students will explore the description and explanation of the evolution of adult behavior over the life span. It will also include the study of the nature and changes of capabilities, skills, feelings, emotions, and social behavior with age. (Credit for FCS 332 or PSYC 374 or GERON 302.)

PSYC 376 Personality 3 Units

Formerly: PSYC 33

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100 with grades of "C" or better; PSYC 300 or PSYC 353 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of major contemporary approaches to personality development. The emphasis will be on psychological health rather than illness, increasing self-awareness, the individual's interaction within the family, the community, and the larger society. Personality development in cross-cultural environments will be explored.

PSYC 390 Psychology of Death and Dying 3 Units

Formerly: PSYC 9

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Areas B2, E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an investigation of beliefs, attitudes, anxieties and behaviors associated with dying and death. Included will be materials relevant to suicide, life-threatening illnesses, bereavement, euthanasia, and various philosophical views on the phenomenon of death.

PSYC 392 Loss and Grief 2 Units

Formerly: PSYC 10

Prerequisite: None
General Education: AA/AS Area E2
Acceptable for credit: CSU
36 hours Lecture
This course will explore the causes of grief reactions and the dynamics of bereavement. Expressions of normal grief will be compared with pathological reactions, and suggested interventions for resolving grief reactions will be addressed. Techniques for the resolution of loss and coping strategies will be presented.

PSYC 405 Substance Abuse-Effects on Body and Behavior (Same as ADMJ 303) 3 Units

Formerly: PSYC 43

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed for anyone who is interested in the effect illegal drugs, prescription drugs, over the counter drugs, vitamins, health foods, and coffee and nicotine have on people, physically, emotionally, mentally, and financially. This course is especially advised for people who are seeking or working in careers in health, law enforcement, counseling, psychology, business, social services, or teaching. (Credit for ADMJ 303 or PSYC 405, but not both.)

PSYC 410 Psychology of Creativity, Intuition and Problem Solving 3 Units

Formerly: PSYC 22

Prerequisite: None
Advisory: PSYC 300 or 350 highly recommended; Eligibility for ENGRD 310 or ENGWR 100 is advised.
Acceptable for credit: CSU
54 hours Lecture
This is a course designed to encourage problem solving, intuition and personal expression in a supportive group atmosphere. It will feature creative movement, writing, art, music, relaxation and creative visualization.

PSYC 412 The Heroic Journey 2 Units

Formerly: PSYC 13

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
36 hours Lecture
Using ideas from LaoTzu, Campbell, Jung, Pearson, Bolen, et al., the course will promote an understanding of the heroic journey of everyday people. The functions, processes, and totems of archetypal station of the Tao of life such as juggler, jester, altruist, warrior, wanderer, etc. will be shared. The heroic journey will be viewed as metaphor for psychological wounding and healing, fragmentation and individuation, and for joining with other sentient beings in the processes of becoming whole.

PSYC 480 Honors General Principles 3 Units

Prerequisite: Admission to Honors program (cumulative GPA of 3.0 or better) or eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC (PSYC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course is an introduction to the major areas in the field of psychology. Topics to be covered include physiological processes, learning, cognition, development, personality, psychological disorders, therapy, social psychology, and research methodologies in psychology. These topics will be discussed from a variety of classical and contemporary psychological perspectives. Critical thinking and application of concepts will be an integral part of the course. There will be oral and written assignments as well as experiential activities in the course. This Honors section uses an intensive pedagogical approach designed to allow motivated students to develop critical thinking skills, skills of oral and written expression, proficiency in library and Internet-based research, and creativity. Pedagogical strategies used in this course include student-led group discussion, oral and written presentations, extensive reading, exposure to theory and research in the field, and various activities and demonstrations.

PSYC 489 Topics in Psychology - Honors .5-4 Units

Formerly: PSYC 44H

Prerequisite: None
Enrollment Limitation: Eligibility for the Honors program.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
9-72 hours Lecture
This course is structured around the concepts of critical thinking, which will then be employed to guide our understanding of contemporary issues in the field. Issues with resonance for contemporary psychologists will be introduced by the students to serve as a focal point for discussion. The course will address issues from a range of perspectives, including biological, sociocultural, and psychodynamic. This honors section uses an intensive instructional methodology designed to challenge motivated students.

PSYC 494 Topics in Psychology .5-4 Units

Formerly: PSYC 44

Prerequisite: None
General Education: AA/AS Area B2.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
9-54 hours Lecture
This course is designed to examine current issues or specific topics concerning psychology. Particular subjects to be covered each semester will be determined by the psychology staff. This course may be taken three times for credit; specific topics may not be repeated.

Railroad Operations RAILR

Associate in Science Degree

Career Certificate

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Designed for students pursuing a career as a Railroad Conductor or Engineer.

Career Opportunities

Sacramento City College's Career Certificate program in Railroad Operations prepares students for an exciting and well-paying career. The more than 500 companies that make up the United States railroad industry provide the country's freight and passenger transportation service on a network of some 300,000 route-miles of track. Railroads employ a substantial work force to service, maintain, and manage this extensive transportation network.

Railroad Operations is an 18 unit, six-course program. The curriculum is approved by the National Academy of Railroad Sciences. In addition to normal student expenses, the Railroad Operations program requires an additional expenditure of approximately $350 for protective clothing, work boots, and safety equipment. Contact the Financial Aid Office for possible assistance before entering the program.

Recommended High School Preparation

Courses in English, mathematics, physics, electronics, mechanics and computers are recommended.

Required Program	Units
RAILR 100, History of Railroading	3
RAILR 102, Railroad Technical Careers	3
RAILR 120, Railroad Operations	3
RAILR 122, Railroad Safety, Quality and Environment	3
RAILR 140, General Code of Operating Rules	3
RAILR 142, Ground School	3
Total Units Required	**18**

Suggested Electives
RAILR 144, CISC 300

Associate in Science Degree (A.S.)
The Associate in Science Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements. See SCC graduation requirements.

Career Certificate
The Career Certificate may be obtained by completion of all courses in the required program with grades of "C" or better.

CELEBRATING 90 YEARS

Railroad Operations (RAILR)

RAILR 100 History of Railroading 3 Units
Formerly: RAILR 50

Prerequisite: None
54 hours Lecture
This course covers the history and traditions of railroading and the industry's role in North American Economic Development. Upon successful completion of this course, students should be able to list and explain the significance of major events in North American Railroading.

RAILR 102 Railroad Technical Careers 3 Units
Formerly: RAILR 51

Prerequisite: None
54 hours Lecture
This course includes information about technical careers in railroading, thereby, enabling student to choose suitable career paths. This course includes field trips that will demonstrate the relationship among technical work groups in day-to-day railroad operations. Upon successful completion of this course, students should be able to describe basic technical job functions, requirements and characteristics.

RAILR 120 Railroad Operations 3 Units
Formerly: RAILR 52

Prerequisite: None
54 hours Lecture
This course includes information about the industry, its major assets, structures and typical operations. Upon successful completion of this course, students should be able to define the current North American railroad industry characteristics, basic operations, components, and processes and industry structure and administrative processes.

RAILR 122 Railroad Safety, Quality, and Environment 3 Units
Formerly: RAILR 53

Prerequisite: None
54 hours Lecture
This course covers the importance of safety quality, personal health and environmental awareness to the railroad industry and emphasizes the basic tools and techniques for improving these conditions on the job. Upon successful completion of this course students should be able to define and explain the needs for improved safety, quality, health, and environmental awareness, describe their basic principles, explain the elements of successful programs, and apply these elements to typical tasks on the job.

RAILR 140 General Code of Operating Rules 3 Units
Formerly: RAILR 54

Prerequisite: RAILR 120 and 122.
54 hours Lecture
This course provides instruction in the use and application of railroad rules, timetables, general orders, track bulletins, track warrants and train orders. The student will learn their interpretation, origin and use in the railroad industry. Students are required to pass the Sacramento Southern Rules Examination with an 85 for the mid-term exam, and will be required to write, and re-write general orders, timetables and rules. This course may be taken two times for credit if a grade of 85 is not obtained on the Sacramento Southern Rules Exam.

RAILR 142 Ground School 3 Units
Formerly: RAILR 55

Prerequisite: RAILR 120, 122, 140, and a pass grade for Sacramento Southern Rules.
36 hours Lecture; 54 hours Laboratory
This course provides for use and application of railroad rules, timetables, general orders, track bulletins, track warrants and train orders. The student will apply these in a railroad setting, making up trains, and switching boxcars from switch lists and work orders. Students are required to show that they have passed the Sacramento Southern Rules examination on their first day of class. Students not qualified in the rules will not be allowed to continue in the class. Students will be required to make up trains, couple and uncouple cars and locomotives, troubleshoot air brakes systems, get on and off moving equipment, remove and apply knuckles of cars (knuckles weigh 75 pounds) and throw switches. Students are required to wear steel toe boots with defined heels, leather gloves, loose fitting jeans or coveralls and head covers. The students will work one student trip and ride for an additional fifteen trips.

RAILR 144 Air Brakes 3.5 Units
Formerly: RAILR 56

Prerequisite: None
Advisory: RAILR 120 and 122.
54 hours Lecture; 27 hours Laboratory
This course offers an overview of the train air brake system from the rear of the engine to the flashing rear end device with a focus on the American brake valve. Emphasis is placed on Federal Railroad Administration requirements for Initial Terminal Brake Test, as well as industry Air Brake Rules on the use and application of the air brake system. The course includes inspection of the load, under carriage, air brake connections, hand brake systems, drain valves and cut-out cocks.

RAILR 294 Topics in Railroad Operations .5-4 Units
Formerly: RAILR 85

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
This is a specialized course developed in cooperation with industry to address emerging training needs. This course may be taken no more than three times for credit provided there is no duplication of topics.

Recreation RECR

Division of Physical Education, Health, and Athletics

Gary Torgeson, Dean/Athletic Director

Hughes Stadium, Sections 1 and 3

916-558-2425

RECR 300 Introduction to Recreation and Leisure Services 3 Units

Formerly: RECR 40

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
A basic course which includes the nature, scope and significance of leisure and recreation as a social force in contemporary society. Special emphasis placed on the role of the professional leader in organizing recreational programs in a variety of settings.

RECR 498 Work Experience in Recreation 1-4 Units

Formerly: RECR 48

Prerequisite: None
Acceptable for credit: CSU
18 hours lecture and 75 hours of related paid activity or 60 hours of volunteer activity for each unit of credit. This course provides practical experience and training for recreational leadership by providing actual supervised work on playgrounds and recreational facilities.

CELEBRATING 90 YEARS

Recreational Vehicle Technology
RVT

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

RVT 100 Introduction to Recreational Vehicle Systems 4 Units

Formerly: RVT 70

Prerequisite: None
72 hours Lecture
This course is designed to teach students the theory, operation, service and maintenance of the various systems in modern recreational vehicles. Further, the course will cover the advantages and disadvantages of the different types of RVs and common maintenance issues for each. This course is ideal for students who want to learn how RV chassis and coach system function and for owners, potential owners, and mechanics who want to learn how to select, service, and maintain them.

CELEBRATING 90 YEARS

Science

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

This program is designed to provide students with a broad understanding of science and an option of a science major.

Required Program
Students must choose a minimum of 18 units from four of the six disciplines listed below. Three laboratory courses from three different disciplines must be included in the 18-unit requirement.

Astronomy

Biology

Chemistry

Engineering

Geology

Physics

Note: Completion of this major program does not equate to the completion of the lower divison major preparation at four-year institutions. Please consult with a counselor.

Associate in Science Degree (A.S.)
The Associate in Science degree may be obtained by completion of a minimum of 18 units from the recommended disciplines, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

CELEBRATING
90
YEARS

Sign Language Studies SILA

Division of Humanities and Fine Arts
Chris Iwata, Dean
Auditorium 19a
916-558-2551

SILA 305 American Sign Language 1 4 Units
Formerly: SILA 1

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is the beginning course in the communicative purposes of American Sign language. Functions establishing and maintaining social relationships are introduced and emphasized. This course provides development of cultural awareness and cross-cultural adjustment skills. Non-verbal communication is emphasized. Homework assignments require attendance at community events.

SILA 306 American Sign Language 2 4 Units
Formerly: SILA 2

Prerequisite: SILA 305.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is the second course in the communicative purposes of American Sign Language. Functions are introduced to help students expand their conversational range from talking about themselves to talking about other people and activities. Students will lean to give appropriate information to establish connection with Deaf acquaintances. Homework assignments will require attendance at community events.

SILA 315 American Sign Language 3 4 Units
Formerly: SILA 310, SILA 3

Prerequisite: SILA 306 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is an advanced course in American sign with emphasis on expressive and receptive non-verbal communication. The course provides extensive activities for developing interpersonal communication skills and awareness of deaf culture. A minimum of 25 hours for participation in Deaf Community events will be required.

SILA 316 American Sign Language 4 4 Units
Formerly: SILA 311, SILA 4

Prerequisite: SILA 315 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is the final course in a series of four courses in American Sign Language. The course provides extensive activities on Sign Language expressions; utilization of ASL and English glosses, expressions, and idioms; reinforcement of previously learned grammatical markers. The course may be repeated on a credit-no credit basis. A minimum of 25 hours for participation in Deaf Community events will be required.

SILA 320 American Sign Language Discourse 3 Units
Formerly: SILA 7

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to signing beyond the conversational level. Students are exposed to complex and diverse signed situations to improve both expressive and receptive skills. The focus will be on the diversity of register, affect, and style in American Sign Language.

SILA 330 Impact of Deafness 3 Units
Formerly: SILA 5

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This class is a survey of processes from the perspective of four institutions that have critical impact on the psycho-social development of people: family, education, work, and society. Students will learn and become sensitive to the unique challenges of deafness. They will be exposed to how these challenges influence personal, social and communication competencies of deaf people. Written reports and student-initiated field trips will be required for this course.

SILA 332 Educating Deaf People 3 Units
Formerly: SILA 6

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course consists of topics related to the education of deaf children, adults and multi-handicapped individuals. Topics will include teaching methods and philosophies; school placement issues; child development; and methods of coping with developmental stages. Research papers and student-initiated field trips will be part of this course.

SILA 334 Sign Language for Educators 1 Unit
Formerly: SILA 22

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course would provide techniques for educators to facilitate communication with deaf and hard of hearing children. Topics to be discussed include but are not limited to: 1) education options for deaf and hard of hearing children; 2) introduction to American Sign Language and fingerspelling; 3) appropriate uses of ASL and fingerspelling in the classroom; 4) history of teaching methods and philosophies for teaching deaf and hard of hearing children, 5) legal and cultural aspects of deaf education, 6) community resources for the deaf, and 7) the role of educational interpreters.

SILA 336 Sign Language for Health Care Personnel and Health Care Students (Same as AH 310) 1 Unit
Formerly: SILA 21

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course will provide techniques for Health Care Personnel and Health Care Students to facilitate communication with the Deaf Person. Topics to be discussed include but are not limited to: 1) Communication; 2) Introduction to American Sign Language and Fingerspelling; 3) History of Deafness; 4) Legal and Cultural Aspects of Deafness; 5) Community Resources.

Social Sciences SOCSC

Associate in Arts Degree

Division of Behavioral and Social Sciences
J. Frank Malaret, Dean
Rodda North 226
916-558-2401

This program is designed to provide students with a broad understanding of the subject matter and the methods of analysis of the social sciences.

Required Program **Units**
A minimum of 18 units from the following . . . 18
An Associate in Arts Degree in Social Science may be obtained by completing a combination of units from three or more of the following areas and courses:

Anthropology
Economics
Geography
History
Political Science
Psychology
Social Science
Sociology
PHIL 310, Introduction to Ethics
PHIL 300, Introduction to Philosophy

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of the required program, plus the general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Transfer Program:
Only certain courses in the SCC Social Science major transfer to Social Science majors at other four-year institutions, including California State University, Sacramento. Transfer students should consult the Requirements of Transfer Institutions in this catalog. For students intending to transfer to a specific college or university, consult the Social Science or related major sections of the catalog for that institution to determine entrance, transferability of SCC courses, general graduation, and major requirements. Consultation with a SCC Counselor is advised.

SOCSC 300 Introduction to Ethnic Studies 3 Units

Prerequisite: None
Advisory: Successful completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course uses comparative methods to introduce the diverse institutional, cultural, and historical issues relating to the past and present life circumstances of Asian Americans, Mexican/Hispanic/Chicano/Latino Americans, Black Americans, Native Americans, and other recent immigrant groups. The course is designed to introduce students to information presented in upper division courses with ethnic studies content.

SOCSC 320 Socio-Cultural, Economic and Political Experience of the African-American 3 Units

Formerly: SS 40

Prerequisite: None
Advisory: Successful completion of ENGWR 100 or ESLW 340 with grade of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an inter-disciplinary overview of the socio-cultural, economic, and political issues in the life of African Americans in the United States. It will expose students of all ethnic backgrounds to the issues germane to the experience of African Americans in the United States.

CELEBRATING 90 YEARS

SOCSC 325 Asian Experience in America 3 Units
Formerly: SS 44

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to and an investigation of the Asian-American's role in the United States, with emphasis on historical and cultural contributions from the time of immigration to the present day.

SOCSC 330 Mexican-Americans in the United States 3 Units
Formerly: SS 42

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of contemporary issues concerning Mexican Americans in the United States. Emphasis is on Mexican American population trends, socio-economic issues, the legal, educational and political experience, and the Chicano movement.

SOCSC 332 The Sociology and Psychology of the Mexican-American 3 Units
Formerly: SS 43

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the cultural, sociological, and psychological experience of Mexican-Americans in the United States and reviews the influence of family, religion, socio-economic status, and education. This courses also addresses the complex issues of identity, assimilation, and self-esteem.

SOCSC 335 Introduction to Native-American Studies 3 Units
Formerly: SS 32

Prerequisite: None
Advisory: Successful completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of traditional cultures of Native American people of North America that focuses on the social, religious, economic, and artistic nature of various native groups. The antiquity, distribution, and linguistic history of native cultures are integrated with the contemporary status of native cultural traditions regarding social change and adaptation. The geographic, cultural, historical, and botanical environment of local native cultures will be emphasized. An optional field trip may be included.

SOCSC 336 Native-American Culture and the Impact of Federal Policy 3 Units
Formerly: SS 33

Prerequisite: None
Advisory: Successful completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an in-depth study comparing Native American traditional cultures and religions in response to the impact of the European invasion. This course includes a review of tribal origins and oral traditions; 'Manifest Destiny'; the impact of treaties; land in trust; and European/Spanish/French culture and religious influences on indigenous people of the Americas. The course also covers disease epidemics; colonization; missionization; religious resistance (The Ghost Dance); attempts at assimilation; the establishment of the Bureau of Indian Affairs; removal policies; reservation policies; boarding schools and the influence of Christianity on Indian children; the Dawes Allotment Act; citizenship; reorganization; termination, relocation and urbanization; social resistance; self determination (includes issues of religious freedom and the use of Peyote); the Indian Civil Rights Act; sacred sites; restoration; and the Native American Graves Protection and Repatriation Act; as well as cultural appropriation of indigenous religion. An optional field trip may be included.

SOCSC 350 Introduction to Women's Studies — 3 Units

Formerly: SS 10

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area B2 and E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an interdisciplinary introduction to women's studies through the exploration and examination of historical, philosophical, sociological, psychological and literary perspectives as they pertain to women. Emphasis will be placed on what it means to grow-up female in different racial contexts, with particular emphasis on the effects of culture and ethnicity.

SOCSC 352 Global Women's Issues (same as SOC 345) — 3 Units

Prerequisite: None
Advisory: Eligibility for ENGRD 110 and ENGWR 100 or ESLW 340 and ESLR 340.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours lecture
This course will provide an opportunity to learn about the lives of women from different cultures. This course will cover the impact of social, cultural, and political aspects of women's lives on an international scale. Additionally, this course will explore issues of health care, civil rights, international relations, poverty, motherhood, labor, safety, political participation, and globalization and their impact on the lives of women and the community at large. Students will critically analyze these issues with an emphasis on problem solving and policy development.

SOCSC 490 Service Learning Component — 1 Unit

Prerequisite: None
Enrollment Limitation: This is a service learning component which is linked to designated service learning classses. Consultation with the instructor is required prior to enrollment. That will generally take place during the first week of class.
Acceptable for credit: CSU
18 hours Lecture
This is an one-unit service learning class which can be added only to specific courses that will be designated in the Schedule of Classes. It is designed to provide students with civic activities related to their coursework and will allow students to take an experiential approach to learning practical applications of course concepts. This class can be added to existing courses in a variety of disciplines and may be taken up to four (4) times with different courses that have been designated in the Schedule of Classes.

SOCSC 493 Topics in International Studies — .5-4 Units

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
9-72 hours Lecture
This course provides a seminar setting in which students can study and discuss issues in international studies (regional and global issues) with faculty from a variety of disciplines. Specific regions (e.g., Latin America, Africa, Asia, the Middle East, Europe) are addressed topically. This course may be taken up to three times for different topics.

Sociology SOC

Associate in Arts Degree

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Sociology
Associate in Arts Degree

The Sociology major is designed to prepare students for further study in Sociology leading to the BA, MA, MSW and/or Ph.D. degrees. Sociologists with graduate degrees teach at the high school, college and graduate levels. Research sociologists manage and execute research at the local, state and federal levels and in both private and public sector industry. Additional careers facilitated by advanced study of sociology include public policy analysis, jurisprudence and careers in international fields. Applied sociologists work with social service agencies and community programs in developing resources for various populations, i.e., at-risk-youth, the elderly or people experiencing challenges related to poverty, substance abuse or the justice system. Sociology majors are encouraged to participate in community activities and community service internships, and often attend relevant guest lectures and public events.

Required Program **Units**

SOC 300, Introductory Sociology (3)
or SOC 480, Introductory Sociology (Honors) (3). 3
SOC 321, Race, Ethnicity and Inequality in the U.S. 3
SOC 301, Social Problems 3

A minimum of 3 units from the following:
SOC 305, Critical Thinking in the Social Sciences (3)
SOC 310, Marriage and the Family (3)
or FCS 320, Marriage and the Family (3)
SOC 344, Sociology of Women's Health (3)
SOC 343, Women and Social Action (3)
SOC 341, Sex and Gender in the U.S. (3)
or FCS 326, Sex and Gender in the U.S (3)
SOC 335, Sociology of Aging (3)
or FCS 330, Sociology of Aging (3)
or GERON 300, Sociology of Aging (3)
SOC 375, Introduction to Community Development (3)
SOC 330, Issues in Multicultural Society (3)
SOC 380, Introduction to Social Services (3)
SOC 382, Introduction to Casework in Social Sciences (3)

A minimum of 9 units from the following: **9[1]**
ANTH 310, Cultural Anthropology (3)
GEOG 310, Human Geography: Exploring Earth's Cultural Landscapes (3)
HIST 300, History of Western Civilization (3)
HIST 302, History of Western Civilization (3)
HIST 310, History of the United States (3)
HIST 311, History of the United States (3)
HIST 320, History of the United States: African-American Emphasis (3)
HIST 321, History of the United States: African-American Emphasis (3)
PHIL 310, Introduction to Ethics (3)
PHIL 317, Global Ethics and Enviromental Ecology (3)
PSYC 300, General Principles (3)
PSYC 356, Human Sexuality (3)
Total Units Required **21**

[1] *No more than three units from any single area/department may be taken.*

In addition to the course requirements, transfer students should complete the general education requirements for the university to which they plan to transfer. Students can also use the Sacramento City College General Education pattern to obtain the degree; however, these courses do not necessarily fulfill the general education requirements of transfer institutions. Student should see a counselor regarding academic planning.

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Sociology (SOC)

SOC 99 Workplace Success: A Sociological Map to Succeeding in the Workplace (Same as HCD 99) 3 Units

Prerequisite: None
54 hours Lecture
Non-degree Applicable
This course teaches students how to use the sociological perspective to reconceptualize the workplace and develop the interpersonal and organizational skills it requires. It is a non-transferable course designed for students in need of strategies to help them attain success in the workplace.

SOC 210 Partner Abuse: Intervention Strategies Related to Power and Control .5 unit

Prerequisite: None
9 hours lecture
This course examines elements of domestic violence that are directly related to both opposite and same sex partner abuse. It will include an overview of the problem as well as intervention strategies related to power and control.

SOC 211 Partner Abuse: Anger Management .5 Unit

Prerequisite: None
9 hours lecture
This course examines the relationship between anger and partner abuse, both same sex and opposite sex. It will begin with an overview of the dynamics of anger before proceeding to a study of anger management.

SOC 300 Introductory Sociology 3 Units

Formerly: SOC 1A

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 or ESLW 340 and ESLR 340, with a grade of C or better.
General Education: AA/AS Areas B2
Acceptable for credit: UC (SOC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course examines the elements and experience of social life. Analysis and discussion of social structure, culture, deviant behavior, social institutions, stratification, inequality, and social change will be explored within a domestic and global framework.

SOC 301 Social Problems 3 Units

Formerly: SOC 1B

Prerequisite: None
Advisory: SOC 300 plus ENGRD 310 and ENGWR 100 or ESLW 340 and ESLR 340, with grades of "C" or better.
General Education: AA/AS Areas B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines current social problems at the global, national, regional, and local level, from a sociological perspective.

SOC 305 Critical Thinking in the Social Sciences 3 Units

Formerly: SOC 2

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better, or the equivalent.
General Education: AA/AS Areas B2, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the definitional and contextual nature of social issues. It develops a "critical thinking" approach, which integrates interdisciplinary principles and incorporates a comparative framework utilizing literary criticism, logic, argumentation, and persuasion to analyze and compare the content and validity of social problems. This course specifically explores how the media and scientific community collect, interpret, and report social data. Combining critical thinking techniques with the sociological perspective will help students to question the "taken-for-granted" assumptions that surround social phenomena and influence human behavior.

SOC 310 Marriage and the Family (Same as FCS 320) 3 Units

Formerly: SOC 3

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340; and ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Areas B2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed for the student to examine the social, psychological, historical, and economic factors relating to changing family, marriage, remarriage, and significant relationship patterns. Exploration of changing gender roles, the meaning of love and sexuality, dating, communication skills, and parenting are included. (Credit may be awarded for either SOC 310 or FCS 320.)

SOC 312 The Child, the Family and the Community (Same as ECE 314 and FCS 314) 3 Units

Formerly: SOC 4

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FCS 312; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Areas B2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
The course is designed for students to examine the child in the family and community. Influences on growth and development including media, social class, gender, sexual orientation, racial/ethnic groups, and their relationship to family behavior will be studied. Students will identify and evaluate personal family dynamics and consequences. Additionally, students are given the opportunity to research and review the diverse community activities and resources available to support the child and the family. (Credit for ECE 314 or FCS 314 or SOC 312; choose only one.)

SOC 321 Race, Ethnicity and Inequality in the United States 3 Units

Formerly: SOC 5

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 or ESLW 340 and ESLR 340 with a "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines patterns of ethnic relations. The course emphasis is domestic, but includes investigations of global concern. Topics include discrimination, prejudice, social stratification, inequality, racism, sexism, ageism, and related subjects. Students can take either SOC 321 or SOC 330 for credit, but not both.

SOC 330 Issues in Multicultural Society 3 Units

Formerly: SOC 34

Prerequisite: None
Advisory: ENGRD 310 or ENGWR 100 with a grade of C or better.
General Education: AA/AS Area F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a survey of the multicultural issues currently facing multicultural communities. Students will learn the concepts of human relations as applied to human dignity; role of the individual worker in encounters with citizen clients; challenges facing professionals in the field; and directions of future innovation and change. Students can take either SOC 321 or SOC 330 for credit, but not both.

SOC 335 Sociology of Aging (Same as FCS 330 and GERON 300) 3 Units

Formerly: SOC 22

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100 or ESLR 340 and ESLW 340 and ESL 114; and FCS 324; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Areas B2, E2
Acceptable for credit: UC (SOC 335 or PSYC 374, maximum one course)/CSU
54 hours Lecture
In this course students will examine the aging process with emphasis on social factors affecting and affected by an aging population. It includes an analysis of demographics, history of aging in America, social conditions, resources and support systems, employment, retirement, social class, and cultural differences. Students will be encouraged to reflect on their status in the sociology of aging process. (Credit awarded for FCS 330 or GERON 300 or SOC 335.)

SOC 341 Sex and Gender in the U.S. (Same as FCS 326) 3 Units

Formerly: SOC 20

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340; and ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of the changing roles of women and men in America. Theories of women's and men's "natures," gender role socialization, gender related inequalities, health and body issues, and current examination of the women's and men's movements will be explored. (Credit for FCS 326 or SOC 341.)

SOC 343 Women and Social Action 3 Units

Formerly: SOC 19

Prerequisite: None
Advisory: Completion of ENGRD 110 and ENGWR 100 or ESLW 340 and ESLR 340 with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
Women and Social Action examines the sociological underpinnings of social action and the unique contributions of women in various community revitalization and policy revision efforts. This course will provide an overview of the ways in which women engage in deliberative social action to change the conditions of their lives and of their communities. The work of various social activists, past and present, will be analyzed in the context of sociological theory as applied to issues related to the institutions of family, health, religion, employment, sexual harassment, housing, and interpersonal violence.

SOC 344 Sociology of Women's Health 3 Units
Formerly: SOC 9

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 110 or ESLW 340
and ESLR 340 with grades of "C" or higher.
General Education: AA/AS Areas B2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a sociological analysis of health issues that concern women throughout their life course. The impact of physiology, psychology, culture, society, and politics upon women's well-being will be addressed using the feminist perspective.

SOC 345 Global Women's Issues 3 Units
(same as SOCSC 352)

Prerequisite: None
Advisory: Eligibility for ENGRD 110 and ENGWR 100 or ESLW 340 and ESLR 340.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours lecture
This course will provide an opportunity to learn about the lives of women from different cultures. This course will cover the impact of social, cultural, and political aspects of women's lives on an international scale. Additionally, this course will explore issues of health care, civil rights, international relations, poverty, motherhood, labor, safety, political participation, and globalization and their impact on the lives of women and the community at large. Students will critically analyze these issues with an emphasis on problem solving and policy development.

SOC 375 Introduction to Community Development 3 Units
Formerly: SOC 30

Prerequisite: None
Advisory: ENGWR 100 or equivalent with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: CSU
54 hours Lecture
This course explores the basic principles of community development. Students will analyze models of successful community practice and learn how to create social capital. Case study methods will be used to explore resource mapping, problem assessment, and strategies for funding nonprofit organizations.

SOC 380 Introduction to Social Services 3 Units
Formerly: SOC 35

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 or ESLR 340 and ESLW 340 with grades of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: CSU
54 hours Lecture
This course will provide a comprehensive overview of the social services. Students will study the full range of organized activities of private, nonprofit, and public sector organizations that seek to prevent, alleviate, or contribute to the solutions of recognized social problems or to improve the well-being of individuals, groups, or communities. This is the introductory course for students interested in careers in applied sociology. This course will provide a multicultural perspective and the opportunity to practice developing skills of critical analysis.

SOC 382 Introduction to Casework in Social Services 3 Units
Formerly: SOC 36

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 110 or ESLR 340 and ESLW 340 with grades of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: CSU
54 hours Lecture
This course examines the socio-cultural context of the role of the case manager in contemporary American society. Exploration of the basic concepts of human behavior, exceptional and vulnerable populations, organizational structure and resource development, and case management principles, are included in the curriculum.

SOC 385 Practicum in Sociology 2-4 Units

Prerequisite: None
Advisory: ENGWR 100 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 54-162 hours Laboratory
Through assignments tied to internship placements, this course will link student work experiences to the structure and processes of organizations. Students will learn techniques to address common problems within organizations and will consider the issues of power, bureaucracy, and communication within wider social systems. Students can take a minimum of two units and will receive one unit of credit for every 60 hours of unpaid work or 75 hours of paid work, for up to four units of credit per semester. This course may be taken four times for a maximum of 16 units as long as there are new or expanded learning opportunities on the job. This course is offered in both face-to-face and online formats.

SOC 480 Introductory Sociology - Honors 3 Units

Formerly: SOC 1AH

Prerequisite: None
Enrollment Limitation: Eligibility for the Honors Program
General Education: AA/AS Area B2
Acceptable for credit: UC (SOC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course examines human behavior as it is affected by social forces. Concepts such as culture, social institutions, social stratification, social change, and social control will be analyzed from both a micro and macro-sociological perspective. The class is conducted as a seminar in which students will be responsible for developing qualitative and/or quantitative analyses of controversial issues and drawing on classical and contemporary sociological theory to frame classroom presentations. There will be oral and written assignments, as well as experiential activities. This course is designed for students from all academic disciplines who are motivated to learn the sociological perspective and how it can be applied to all aspects of the human experience. This honors section uses an intensive instructional methodology designed to challenge motivated students.

SOC 494 Topics in Sociology .5-4 Units

Formerly: SOC 44

Prerequisite: None
Advisory: SOC 300 and ENGRD 310 and ENGWR 100 or ESLR 340 and ESLW 340, with grades of "C" or better.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
9-72 hours Lecture
This course provides an examination of specific topics from a sociological perspective. The particular subject to be covered each semester will be determined by the Sociology Department and depend on topical events. Students may earn from .5-4 units. Consult the schedule of classes for specific topics.

Statistics STAT

Division of Mathematics/Statistics & Engineering

Anne E. Licciardi, Interim Dean

South Gym 220

916-558-2202

Statistics (STAT)

STAT 300 Introduction to Probability and Statistics 4 Units

Formerly: STAT 1

Prerequisite: MATH 120 or MATH 124 with a grade of "C" or better or eligibility as determined by the assessment process.

General Education: AA/AS Area D2 and Math Competency

Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU

72 hours Lecture

This course is an introduction to probability and statistics. Topics include: elementary principles and applications of descriptive statistics, counting principles, elementary probability principles, probability distributions, estimation of parameters, hypothesis testing, linear regression and correlation, and ANOVA. Scientific calculators with two-variable statistical capabilities may be required for this class.

STAT 480 Introduction to Probability and Statistics - Honors 4 Units

Formerly: STAT 1H

Prerequisite: MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process; eligibility for admissions to the Honors Program.

Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU

AA/AS: Math Competency

72 hours Lecture

This course is an introduction to the concepts of statistics with a strong emphasis on the understanding and appreciation of the role of statistics in real life situations including computer analysis of real data. Topics include descriptive statistics, probability distributions, experimental design, hypotheses testing including ANOVA, non-parametric tests, and regression and correlation.

Note: Business Statistics-See ECON 310 under Economics

CELEBRATING 90 YEARS

Student Government SGVT

Student Leadership and Development

Lawrence G. Dun, Dean

South Gym 226

916-558-2194

SGVT 300 Introduction to Student Government 2 Units

Formerly: SGVT 1

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course is an introduction to the dynamics of working groups. It provides theory and practice in leadership, parliamentary procedure, committee techniques, and organizational behavior. The emphasis is on governmental procedures and functions as they apply to student governance. Students can anticipate participation in student government and committees. This course may be taken twice for credit.

Study Abroad Program

Sacramento City College recognizes the benefits to be derived from travel/study tours and the educational value of on-site experiences in other areas of the world. Study abroad can be an enlightening, maturing, and life-changing experience. Students are challenged to re-examine themselves, their attitudes and their studies as they learn to understand new and different cultures.

In cooperation with the American Institute for Foreign Study and the Northern and Central California Consortium, the Los Rios Community College District offers unique study opportunities in London, England; Paris, France; Florence Italy, Costa Rica, Madrid, and China.

All studies are typical of regular academic programs taught on the SCC campus, yet utilize travel/field trips, cross-cultural experiences and foreign resources.

Prerequisite: Completion of 12 units of college credit before departure and a 2.56 GPA.

The 13-week program typically includes a required course in the life and culture of the country and general education courses such as Art, English, Humanities, and Social Sciences.

For more information and applications, call the Study Abroad Office at Cosumnes River College, (916) 691-7187 or visit the website at http://crc.losrios.edu/abroad

CELEBRATING 90 YEARS

Technology TECH

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

TECH 10 Basic Instrumental Drawing 3 Units

Formerly: TECH 200

Prerequisite: None
54 hours Lecture
Non-degree Applicable
This course is an introduction to the use of drafting equipment and materials. Studies to include lettering, geometric construction, orthographic, isometric and oblique projection, shades and shadows, principles of drawing layouts and dimensioning. This course is designed to meet the instrumental drawing needs of students enrolling in Aviation Maintenance Technology, Engineering Design Technology, Electronics Technology, Printing Technology, Metals Industry Technology and Survey Technology.

TECH 11 Applied Technical Mathematics 3 Units

Formerly: TECH 201

Prerequisite: None
54 hours Lecture
Non-degree Applicable
This course focuses on review of arithmetical processes and applied technical problems. Includes whole numbers, common fractions, decimal fractions, measurements, percentages, finance, graphs, equations, ratio and proportion, exponents, radicals, metric conversion and basic algebra.

TECH 12 Introduction to Basic Tools and Materials of Industry 1 Unit

Formerly: TECH 202

Prerequisite: None
18 hours Lecture
Non-degree Applicable
This course focuses on an orientation of the nomenclature and use of basic hand tools and materials used by technicians. Content is specifically designed for students who lack previous technical experience.

TECH 100 Introduction to Technology 1 Unit

Formerly: TECH 38

Prerequisite: None
18 hours Lecture
This course is designed to introduce students to post-secondary education and to acquaint them with occupational career paths in technology. This will be accomplished by introducing the student to the enrollment/matriculation process, academic standards/college policies, technology programs/graduation requirement, and career opportunities.

TECH 103 Technical Communication (Same as MET 220) 3 Units

Formerly: TECH 67

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 50 with a grade of "C" or better.
General Education: AA/AS Area D1 and writing competency
36 hours Lecture; 54 hours Laboratory
This course provides applications of writing and speaking skills for the business environment. Each student writes a minimum of 6,000 words, including a final essay exam. Units of instruction include: the process and techniques of technical writing, basic word processor usage, writing and preparing typical job related memos, letters, employment letters, resumes, specifications, procedures, abstracts, summaries, instructions, manuals, requisitions, purchase orders, and other documentation used in industry. An oral report, a formal proposal, and a final written essay will be required.

TECH 105 Foundation for Career Success 3 Units
Formerly: TECH 80

Prerequisite: None
30 hours Lecture; 70 hours Laboratory
This class is designed to introduce students to specific personal skills and competence that will lead to success in the workplace. Units of instruction include: Rules, Time management, Value Awareness; Improving Interpersonal Skills and Working with Others; Measuring Job Preparedness and Making Decisions; Developing SCANS competencies for Job Success; Problems and Problem-solving; Organizing Yourself and Working with Others and Learning to Learn. Class includes specific content skills exercises, guided practice and individual skill development.

TECH 300 Introduction to Robotic Systems Application 3 Units
Formerly: TECH 53

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a course designed to provide introductory level instruction in the concepts, operation, maintenance and practical application of robotic systems. Instructional components will include: basic robotic concepts, mechanical, electronic, hydraulic, and pneumatic components, light and other sensor controls in addition to related programming and safety procedures.

TECH 310 Industrial Safety 1 Unit
Formerly: TECH 58

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course focuses on the development of industrial safety programs; causes and costs of accidents; accident analysis reports; basic factors of accident control; hand, heat and power tools; safety problems of handling materials; vehicular safety; protective equipment; safety codes; first aid; fire prevention, fire fighting, emphasis on personal responsibility for safety.

TECH 315 Industrial Relations 1 Unit
Formerly: TECH 59

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course focuses on applied psychology on the job; basic human needs on the job; managerial, supervisory and labor force relations; union organizations; organizations of management; functions of an industrial relations department.

TECH 498 Work Experience in Technologies 1-4 Units
Formerly: TECH 98

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
Technology includes Aeronautics, Electronics Technology, Engineering Design Technology, Graphic Communication, Mechanical-Electrical Technology, Metals Industry Technology, Photography, and Surveying (Geomatics) 18 hours lecture and 75 hours of paid work experience; 75 hours work for each additional unit This course is an introduction to career research techniques, discussion of industrial management and industrial relations problems and techniques.

Theatre Arts TA

Associate in Arts Degree

Acting-Directing Emphasis

Technical Production Emphasis

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

A major in Theatre Arts may be obtained by completing a minimum of 18 units in either Emphasis I or II of the Required Program.

Required Program

I. Theatre Arts - Acting-Directing Emphasis:

A minimum of 18 units from the following:. . . 18
TA 300, Introduction to the Theatre (3)
TA 302, History and Theory of the Theatre I (3)
TA 303, History and Theory of the Theatre II (3)
TA 342, Introduction to Acting (3)
TA 350, Theory and Techniques of Acting I (3)
TA 351, Theory and Techniques of Acting II (3)
TA 370, Theatre Movement (2)
TA 372, Pantomime (3)
TA 420, Stagecraft (3)
TA 437, Stage Make-up I (2)
TA 438, Stage Make-up II (2)
TA 452, One-Act Play Workshop (3)
TA 461, Rehearsal and Performance - Drama (0.5 - 3)
TA 462, Rehearsal and Performance - Comedy (0.5 - 3)
TA 463, Rehearsal and Performance - Classical (0.5 - 3)
TA 464, Rehearsal and Performance - Children's Show (0.5 - 3)
TA 465, Rehearsal and Performance - Musical (0.5 - 3)

II. Theatre Arts - Technical Production Emphasis:

A minimum of 18 units from the following:. . . 18
TA 300, Introduction to the Theatre (3)
TA 302, History and Theory of the Theatre I (3)
TA 303, History and Theory of the Theatre II (3)
TA 342, Introduction to Acting (3)
TA 350, Theory and Techniques of Acting I (3)
TA 420, Stagecraft (3)
TA 422, Stage Lighting (3)
TA 437, Stage Make-up I (2)
TA 438, Stage Make-up II (2)
TA 461, Rehearsal and Performance - Drama (0.5 - 3)
TA 462, Rehearsal and Performance - Comedy (0.5 - 3)
TA 463, Rehearsal and Performance - Classical (0.5 - 3)
TA 464, Rehearsal and Performance - Children's Show (0.5 - 3)
TA 465, Rehearsal and Performance - Musical (0.5 - 3)

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of a minimum of 18 units from either Emphasis I or II, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Transfer Program
Transfer students should consult the Requirements of Transfer Institutions section in this catalog and the Theatre Arts, Drama, or related Majors sections of the specific catalog for the institution to which they wish to transfer to determine admission, general education, and major requirements. Consultation with an SCC counselor is urged.

CELEBRATING 90 YEARS

TA 300 Introduction to the Theatre 3 Units

Formerly: TA 1

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course includes the study of live theatre and its relationship to film and television. Also covered are the development of an enjoyment of theatre through play reading, discussion, films, and viewing live theatre including a required field trip to a play at a professional theatre. This is an audience oriented, non-performance course.

TA 302 History and Theory of the Theatre I 3 Units

Formerly: TA 2A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the masterpieces of world theatre from the Greeks to modern times. Lectures include the historical background in which the plays were written, discussion of the playwright's meaning, and comments on a variety of staging possibilities. Students are required to see three stage productions during the semester.

TA 303 History and Theory of the Theatre II 3 Units

Formerly: TA 2B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the principal types of Twentieth Century theatre. Lectures include the background in which the plays were written, discussions of the playwright's meaning, and comments on a variety of staging possibilities. Students are required to see three stage productions during the semester.

TA 308 Diversity in Theatre 3 Units

Formerly: TA 4

Prerequisite: None
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to American cultural diversity in theatrical performance. This course will study African American, Asian American, Latino, Native American, gay and lesbian, and other theatres. The social, cultural and political conditions that shaped these works will also be examined and discussed.

TA 310 Introduction to Film (Same as ENGLT 400) 3 Units

Formerly: TA 6

Prerequisite: Eligibility for ENGWR 100 and ENGRD 110 or ESLR 320 and ESLW 320 or placement through the assessment process.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores the artistic, business, and social elements of modern film. It examines the elements that go into making films: acting, directing, cinematography, writing and editing. It investigates the techniques used to manipulate the audience into fear, laughter and sadness, and compares the commercial box office hit and "movie star" to enduring artistic films and actors. This class will view and analyze films to evaluate filmmaking techniques and the impact of films and the movie business on society. This course is cross-listed with ENGLT 400. It may be taken only once for credit as TA 310 or as ENGLT 400, but not both.

TA 312 History of Film 3 Units

Formerly: TA 7

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a general survey of the development of the art of narrative film from early silent films to modern sound films using lecture, discussion and films chosen to represent important developments in the film history. The course may be taken twice for credit.

TA 318 Diversity in American Film 3 Units

Formerly: TA 8

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLR 320 and ESLW 320 or placement through assessment process.
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys the cinematic expression of artists often underrepresented in the mainstream media such as women, Native-Americans, African-Americans, Latinos, Asian-Americans and gays and lesbians. Media stereotypes and their social, political, and cultural origins will be covered through film, lecture, and discussion.

TA 320 Cinema Genres 3 Units

Formerly: TA 9

Prerequisite: None
Advisory: ENGWR 100 and/or ENGRD 310.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to explore in depth one or more film genres. Special attention is paid to development, aesthetics, popularity and artists of the specific form. This course may be taken four times for credit if subject matter is not repeated. See the Schedule of Classes for specific information.

TA 331 Film Making 3 units
(Same as ART 421)

Prerequisite: None
Acceptable for credit: UC (TA 331 or 322, maximum one course)/ CSU
36 hours lecture, 72 hours laboratory
This course emphasizes contemporary methods of film production, including low-budget art films with a concern for the aesthetics of film making. Stressed are techniques of direction, lighting, titling, camera use, editing, film types, lenses, and other aspects of cinema. Equipment and supplies for individual projects must be furnished by each student. Supplies and equipment are furnished for students working on group projects. The course may be taken twice for credit.

TA 332 Film-Making Projects 3 units

Prerequisite: None
Acceptable for credit: UC (TA 331 or 322, maximum one course; TA 332 or ART 421, maximum one course)/CSU
36 hours lecture, 72 hours laboratory
A fundamental overview of the basic creative, technical, and management skills necessary to design and produce a film project on location. Students will gain hands-on experience in production techniques using film production equipment. The emphasis is on pre-production planning, scripting, equipment operations, lighting, audio, and post production. As a class project, participants develop and produce a previously determined, short subject film on location that applies the principles learned through lectures, program screenings, exercises, and guest speakers. Because of the technical nature of this course, students with prior coursework or training in theatre, film, television or related fields will be able to engage the class more quickly. This course may be taken twice for credit.

TA 333 Film Editing with Final Cut Pro 3 units

Prequisite: None
Acceptable for credit: UC/CSU
36 hours lecture, 72 hours laboratory
This course is an introduction to the basic concepts and technical elements of film editing for the cinema. Students will gain practical experience in editing images and synchronous sound to create cinematic products. Students will receive training in the basic features and capabilities of current film editing equipment including the latest film editing software. Some of the topics covered in the course include a basic overview of editing, video montage, subclippings, storyboarding, editing dialogue, as well as digitizing and final output. This course involves the use of software which is primarily Macintosh based.

TA 339 Screenwriting 3 Units

Prerequisite: None
Advisory: ENGWR 300 with a grade of "C" or better, or ESLW 340 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is a study of the creativity and techniques of screenwriting for short films, feature films, and television. Students will view and analyze exemplary films, participate in writing exercises and workshops, and complete a treatment and master scenes of a full-length professionally formatted screenplay.

TA 342 Introduction to Acting 3 Units
Formerly: TA 14

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to stage performance. Included is a classroom investigation of performance through the use of theatre games, movement, sensory awareness and improvisation. The course is designed for the student interested in self-expression through informal drama.

TA 350 Theory and Techniques of Acting I 3 Units
Formerly: TA 15A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores the theories and techniques used in the preparation of a role for the stage. Memorized acting scenes are staged and performed in the classroom. The course is designed for majors in theatre arts and communication.

TA 351 Theory and Techniques of Acting II 3 Units
Formerly: TA 15B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course includes the application of acting theories and techniques to the scripts of realistic drama. Memorized acting scenes are presented in the classroom.

TA 356 Acting for the Camera I 3 Units
Formerly: TA 19

Prerequisite: Completion of TA 348 or 350 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory course in the theory and techniques of acting for film and television. This course compares the differences between acting on the stage and acting for the camera. Scenes and commercials will be rehearsed, performed, and played back for critiques.

TA 360 Styles of Acting 3 Units
Formerly: TA 16

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
Students will study and practice different styles of acting from the ancient to modern times. The instructor may concentrate on selected periods. This course may be taken twice for credit.

TA 364 Shakespeare Without Fear 3 Units
Formerly: TA 45

Prerequisite: None
Advisory: ENGWR 100 and/or ENGRD 310
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to give the student a non-threatening opportunity to explore performance of Shakespeare plays. Some of the topics covered include acting, language, stage combat and auditioning techniques. Students will gain insights into the historical and cultural context of Shakespeare's works through their performances and discuss their contemporary relevance.

TA 370 Theatre Movement 2 Units
Formerly: TA 17

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course is an active participation and performance experience designed to give students experience in discovering and solving movement tasks of the actor. The course incorporates exercises to expand the individual's movement capabilities, improvisations to explore movement for characters and scenes, and training in specific movement areas such as combat, period style, and dance. The course may be repeated for a maximum of eight units of credit.

TA 372 Pantomime 3 Units
Formerly: TA 18

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to give students an awareness of the history of mime and the nature of current mime forms and to introduce each student to the theories and basic techniques of mime. This course is intended to encourage each student through exercises, improvisations and performance, assignments to communicate silently with an audience through imaginative, disciplined and stylized body movements.

TA 395 Playwriting 3 Units
Formerly: TA 38

Prerequisite: None
Advisory: ENGWR 100.
General Education: AA/AS Area C.
Acceptable for credit: CSU
54 hours Lecture
This course includes the writing, reading, performing, critiquing, and a process of continuous revising of original work. Students will write continually throughout the semester, and their work will be read, performed, and discussed in class. Students will complete either a full-length play or three one-act plays by the end of the semester.

TA 404 Techniques of Puppetry 3 Units
Formerly: TA 24

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course includes the study of puppets as a medium of expression of dramatic material. Studied are puppet history, construction, techniques of scripting and production.

TA 407 Children's Theatre .5-3 Units
Formerly: TA 25

Prerequisite: Audition.
Acceptable for credit: CSU
162 hours Laboratory
This course is open to students participating in theatrical productions as children's literature. Students are selected through auditions as actors or technicians and may earn one-half to three units. This course may be taken four times for a maximum of twelve units. Students may enroll in this class after the close of late registration at the discretion of the instructor.

TA 420 Stagecraft 3 Units
Formerly: TA 30A

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course covers the basic materials used in the construction of scenery and properties; as well as construction and painting techniques; kinds of scenery and backstage organization are explored through a combination of lecture and practical experience gained by working on department productions.

TA 422 Stage Lighting 3 Units
Formerly: TA 31

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 72 hours Laboratory
This course is an introduction to the basic concepts of lighting the stage, film, and television. The course covers the planning of lighting from the basics of electricity, equipment and control, to the design elements of color, space, scenery and movement to produce a lighting design.

TA 430 Costume Construction 3 Units
Formerly: TA 36

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
In addition to constructing costumes for at least two major drama productions, students will learn techniques of pattern drafting and adaptation of period styles for stage use. Basic elements of color, design, and period styles are explored. This course may be taken twice for credit.

TA 437 Stage Make-up I 2 Units
Formerly: TA 39A

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
The course includes the analysis of techniques of stage make-up. Experience includes developing make-up for different characters from plays. The course is recommended for drama majors.

TA 438 Stage Make-up II 2 Units
Formerly: TA 39B

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course includes special projects in the design and execution of character make-up for selected plays. Emphasis is on three dimensional make-up techniques. In order to provide advance instruction, students will work in small groups.

TA 440 Arts Management 3 Units
Formerly: TA 34

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a general survey class in arts management with emphasis on: organization, marketing/development, and financial management. Fieldwork will include projects with an existing arts organization.

TA 452 One-Act Play Workshop 3 Units
Formerly: TA 46

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
The course includes the reading and discussion of one-act plays with each member of the class becoming a participant-as a performer and/or technician-in a one-act play production. The course may be taken four times for credit.

TA 454 Ethnic Theatre Workshop I 3 Units
Formerly: TA 40

Prerequisite: None
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course includes participation in various theatre activities specifically designated to explore the needs of the ethnic performer. The course may be taken four times for credit.

TA 455 Ethnic Theatre Workshop II 3 Units
Formerly: TA 41

Prerequisite: None
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course allows students to work on a specific work or works of ethnic theatre as performers or technicians. A production of ethnic drama will be presented the last weeks of the course. The course may be taken four times for credit.

TA 461 Rehearsal and Performance - Drama .5-3 Units
Formerly: TA 47A

Prerequisite: Audition.
Acceptable for credit: UC/CSU
27-162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of dramatic theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office, and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 462 Rehearsal and Performance - Comedy .5-3 Units
Formerly: TA 47B

Prerequisite: Audition.
Acceptable for credit: UC/CSU
27-162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of comedic theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office, and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 463 Rehearsal and Performance - Classical .5-3 Units
Formerly: TA 47D

Prerequisite: Audition.
Acceptable for credit: UC/CSU
27-162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of classical theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 464 Rehearsal and Performance - Children's Show .5-3 Units
Formerly: TA 47E

Prerequisite: Audition.
Acceptable for credit: CSU
27-162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of children's theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office, and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 465 Rehearsal and Performance -Musical .5-3 Units

Formerly: TA 47C

Prerequisite: Audition.
Acceptable for credit: UC/CSU
27-162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of musical theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office, and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 466 Rehearsal and Performance - Musical Ensemble (Same as MUP 370) .5-3 Units

Formerly: TA 43

Prerequisite: Students are selected through audition as singers and instrumentalists.
Acceptable for credit: UC/CSU
27-162 hours Laboratory
This course is open to students performing in theatrical musical productions. The course requires 27 hours of laboratory for each unit of credit. This course may be repeated up to three units maximum.

TA 477 Fundamentals of Repertory Production 1-3 Units

Formerly: TA 44

Prerequisite: Audition.
Acceptable for credit: UC/CSU
18 hours Lecture; 108 hours Laboratory
The course provides for participation in one or more productions and includes work in all areas of theatre, including acting, scene construction, costumes, makeup and business management. It culminates in concurrent performances at the end of the session. The course may be repeated for a total of 12 units. Students may opt for a one-unit workshop that will survey the production process.

TA 494 Topics in Theatre Arts .5-4 Units

Formerly: TA 42

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
36 hours Lecture; 108 hours Laboratory
This course is designed to give students an opportunity to study a variety of topics dealing with performance and/or production aspects of theatre not included in current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

TA 498 Work Experience in Theatre Arts 1-4 Units

Formerly: TA 48

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course involves 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; and 75 or 60 hours of related work experience for each additional unit. The course may be repeated when there is new or expanded learning on the job.

Topics in (Subject)

Topics in (Subject) **.5-4 Units**

294

Not transferable

494

Acceptable for credit:
CSU (elective units)
UC - only those marked with an asterisk (494) are UC transferable; UC (credit is contingent upon evaluation of course outline by each UC campus aftertransfer)*

This is a Topics course that focuses on a specific knowledge or skill as described by a complete course outline of record that changes from term to term. This course may be developed in cooperation with industry to meet specialized training needs. In general, the topics discussed in this course are not included in current curriculum offerings. Topics courses may be repeated four times up to a maximum of 12 units, with no duplication of topics. Refer to the Schedule of Classes for more specific offerings.

ADAPT 494
ADMJ 494
AERO 494
ANTH 494
ART 494*
ASTR 494*
BIOL 494*
BUS 294
CHEM 494
COMM 494*
COSM 294
ECE 294
EVT 294
ET 494
ENGR 494*
EDT 494
ENGLT 494
FCS 294
FITNS 494
FLTEC 294
GEOL 494
GERON 494
GCOM 294
HIST 494*
LIBT 494
MATH 494*
MET 294
MUSM 494*
PHOTO 494
PHYS 494*
POLS 494*
PSYC 489* and 494*
RAILR 294
SOCSC 493*
SOC 494*
TA 494*

Women's Studies

Associate in Arts Degree

Department of Psychology

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Women's Studies, established in 1975 under the Social Sciences major, is a multi-disciplinary academic program. The program prepares students for a wide range of career and life choices, for advanced study in traditional disciplines and professions, for entry into non-traditional fields, and for full participation in the twenty-first century.

Students develop critical reasoning and analytical skills, research and communication skills, and a deep appreciation for the complexities of power. The program intellectually challenges paradigms. It seeks to awaken students to the realities of American society, to encourage them to re-examine traditional ideas about women, to acquire skills, and to choose life goals consistent with their individual potential.

Required Program

A minimum of 18 units from the following: 18[1]
- ARTH 312, Women in Art (3)
- ENGLT 360, Women in Literature (3)
- ENGLT 401, Women in Film and Literature (3)
- HIST 310, History of the United States (3)
- HIST 311, History of the United States (3)
- FITNS 454, Personal Safety (1.5)
- POLS 340, Women in Politics (3)
- PSYC 356, Human Sexuality (3)
- PSYC 360, Psychology of Women (3)
- PSYC 363, Psychology of Women in Film (3)
- SOC 343, Women and Social Action (3)
- SOC 344, Sociology of Women's Health (3)
- SOCSC 350, Introduction to Women's Studies (3)
- FCS 326, Sex and Gender in the U.S. (3)
  - or SOC 341, Sex and Gender in the U.S. (3)
- SOC 345, Global Women's Issues (3)
  - or SOCSC 352, Global Women's Issues (3)

Total Units Required 18

[1] *Students enrolled in HIST 310 and 311 must select the "women's emphasis" sections of these courses. See the Schedule of Classes for more information.*

In addition to the course requirements, transfer students should complete the general education requirements for the university to which they plan to transfer. Students can also use the Sacramento City College General Education pattern to obtain the degree; however, these courses do not necessarily fulfill the general education requirements of transfer institutions. Student should see a counselor regarding academic planning.

Associate in Arts Degree (A.A.)
The Associate in Arts degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Work Experience - WEXP
Cooperative Work Experience Education and Internship Program

Division of Counseling and Student Success

Delecia Nunnally, Dean

Rodda North 111

916-558-2289

Placements
Students interested in an internship, a volunteer work experience, a paid work experience, or any type of work-learn experience may secure assistance from the Work Experience office.

Enrollment
Students may enroll in a Work Experience class as listed in the Schedule of Classes during the class registration process. The individual instructor determines the student's eligibility for the course. Students may not be enrolled in more than one Work Experience course at a time. Consult the Work Experience office for assistance.

Qualifications
a) The student must be enrolled in and complete a minimum of seven (7) units, including Work Experience. Example: four (4) units of Work Experience plus one three (3) unit class for a total of seven (7) units.

b) Occupational Work Experience 498 or 298: The student must be working in a job or internship related to the student's major or planned college program.

c) General Work Experience 198: The student is employed but has no declared major or the job is unrelated to the major. General Work Experience 198 is not acceptable for Veterans Administration benefits.

d) The student who is already working will have his or her job evaluated by the Work Experience instructor. The methods of evaluation will include learning experiences that contribute to the student's educational or occupational goals.

e) Self-employed students must name a designated evaluator who is acceptable to the instructor. The evaluator must have educational or experiential background necessary to judge student-learning experiences.

Credit
One unit of credit is granted for each 75 hours of paid work experience or for 60 hours of volunteer experience. General Work Experience students can earn up to three (3) units each semester for a total of 12 units. Occupational Work Experience students can earn up to four (4) units each semester for a total of 16 units. General and Occupational Work Experience credits can be combined but no student can earn more than 16 units total. Students will be issued time sheets on which to record their work hours. A work experience course may be repeated for credit when there are new learning experiences possible on the job.

Course Work
Credit will only be given through enrollment in a work experience course. Attendance is required. Each student will be required to develop job-related learning objectives in coordination with the supervisor and the instructor. Other course material will be related to career development and the labor market or the workplace in general. Work Experience students will attend a weekly class session. Classes are available online as well as in a traditional classroom venue.

Involvement of the Employer
The employer will be asked to cooperate with the student employee and the instructor to develop meaningful learning objectives. The employer and the coordinator will also evaluate the student's progress both in writing and in a personal conference during each semester.

Summer Session
Students may enroll in a Work Experience course during the summer without having to enroll in other courses.

Alternate Semester Work Experience
This plan is for students who attend school full time one semester and work full time the next semester, for example as in the Federal Cooperative Education Program. Students must complete seven (7) units at a Los Rios Community College District college before they may enroll and may earn up to eight (8) units for each semester of

CELEBRATING 90 YEARS

Work Experience. Students cannot be enrolled in more than one other course while enrolled in the Alternate Semester Plan. They must complete seven (7) additional units before enrolling again in Cooperative Work Experience. Enrollment in Alternate Semester Work Experience is possible only through special arrangements with the Work Experience Coordinator.

Work Experience courses are available in several divisions and will be listed in the catalog and the class schedule as follows:

Administration of Justice - ADMJ 498

Aeronautics - AERO 498

Art - ART 498

Business - BUS 498

Computer Information Science - CORE - CISC 498

Early Childhood Education - ECE 498

Electronics Technology - ET 498

Engineering - ENGR 498

Engineering Design Technology - EDT 498

Gerontology - GERON 498

Graphic Communication - GCOM 498

Human Services - HSER 498

Journalism - JOUR 498

Library and Information Technology - LIBT 498

Music, Specializations in Music - MUSM 498

Photography - PHOTO 498

Recreation - RECR 498

Technology - TECH 498

Theatre Arts - TA 498

Internship courses are available in several divisions and will be listed in the catalog and the class schedule as follows:

Physical Education - Theory - PET 497
Political Science - POLS 497
Real Estate - RE 497

Wendy Slobodnik, Coordinator
Counseling Services Area, Room 114
916-558-2383
slobodw@scc.losrios.edu

Work Experience (WEXP)

Students who are interested in combining practical work experience with classroom training, ether for pay or as volunteers, and students who are working full-time or part-time, as volunteers for pay, may enroll in a Work Experience class. College credit is granted for the following: 1) WEXP 198 - when the student is working in a job unrelated to the student's college program or if the student has not declared a major; 2) WEXP 298 - when the student is working in a job or internship related to the student's major or planned occupational or transfer education program; 3) WEXP 498 - when the student is working in a job or internship related to the student's major, or planned occupational or transfer education program. This course is transferable to CSU campuses.

WEXP 198 Work Experience - General 1-3 Units

Formerly: WEXP 97

Prerequisite: None
Corequisite: According to Education Code Title V regulations, a student cannot earn academic credits in a Work Experience class unless s/he has either a job or an internship.
General Education: AA/AS Area E2.
18 hours Lecture; 60-225 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area. Course content will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V Education Code papers (the student's Application, Learning Objectives, Timesheet, and Evaluations), which document the student's progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies, as well as by local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the student to combine practical, paid or non-paid work experience with college training. The course may be taken up to four times when there is new or expanded learning on the job for up to 12 units. Only one Work Experience course may be taken per semester.

WEXP 298 Work Experience in (Subject) 1-4 Units

Formerly: WEXP 98

Prerequisite: None
Corequisite: According to Education Code Title V regulations, a student cannot earn academic credits in a Work Experience class unless s/he has either a job or an internship.
General Education: AA/AS Area E2.
18 hours Lecture; 60-300 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area. Course content will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V Education Code papers (the student's Application, Learning Objectives, Timesheet, and Evaluations), which document the student's progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies, as well as by local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the student to combine practical, paid or non-paid work experience with college training. The course may be taken up to four times when there is new or expanded learning on the job for up to 16 units. Only one Work Experience course may be taken per semester.

WEXP 498 Work Experience in (Subject) 1-4 Units

Formerly: WEXP 48

Prerequisite: None
Corequisite: According to Education Code Title V regulations, a student cannot earn academic credits in a Work Experience class unless s/he has either a job or an internship.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
18 hours Lecture; 60-300 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area. Course content will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V Education Code papers (the student's Application, Learning Objectives, Timesheet, and Evaluations), which document the student's progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies, as well as by local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be taken up to four times when there is new or expanded learning on the job for a total of 16 units. This course is transferable to any CSU campus. Only one Work Experience course may be taken per semester.

Sacramento City College

Classified Staff

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Arashiro, Nancy
EOPS

Armwood, Athea R.
Child Development

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Planning/Research

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Bruce, Loretta M.
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Carroll, Andrea C.
Operations

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Operations

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Learning Resources Division

Dolan, Mary T.
Instructional Services

Dolan, Mary T. (Sr.)
Language & Literature Division

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EOP&S

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Galloway, Kimberly
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Garcia, Arnoldo
Physical Education Division

Garcia, Coral D.
Business Office

Garcia, Diego
Operations

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Advanced Technology Division

Gaughan, Thomas A.
Advanced Technology Division

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Learning Resources Division

Gleason, Astra
Learning Resources Division

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Admissions & Records

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Science and Allied Health Division

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Language and Literature Division

Hanson, Wyanda K.
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Child Development Center

Harvey, Michael D.
Receiving

Heidt, Jr., Robert F.
Business Office

Heisleman, Robert B.
Matriculation & Student Development

Hibbard, Linda J.
Counseling Services (LD)

Hindsman, Sharon E.
Child Development Center

Hodge, Tracey
Matriculation & Student Development

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Custodial Services

Houston, Lyle P.
Custodial Services

Hsu, Zhiqi L.
Financial Aid Office

Humphries, Charlotte
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Counseling Services/Intl Students

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Johnson, Donna B.
Counseling Services

Johnson, Elizabeth
Counseling Services

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Jones, Stephen C.
Humanities & Fine Arts Division

Jordan, Robert H.
Information Technology

Juge, Jr., Joseph R.
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Dental Health

Kelly, Robert D.
Information Technology

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Kephart, II, George
Police Officer

Kinoshita, Naomi
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Kivlin, Holly E.
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Kozikowska, Barbara L.
Child Development Center

Kozikowski, Jacek I.
Davis Center

Krantz, Janet S.
Mathematics/Statistics, and Engineering

Kusumi, Tomoko
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Downtown Center

Lampano, Jinky-Jay
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Ledet, Shawn
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Les, Halida
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Lodzhanskiy, Natalya
West Sacramento Center

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Business Office

Lor, Ge Vang
Financial Aid Office

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Admissions & Records

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Business Division

Maghanoy, Jr., Restituto M.
Duplicating

Marchand, Whitney
Police Dispatcher

Marsant, Irina
Matriculation & Student Development

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McEnerney, Claudia
Learning Resources Division

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Mathematics/Statistics and Engineering

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Child Development Center

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Behavioral & Social Science Division

Mishra, Ashmeeta
West Sacramento Center

Mixon, Loren
Police Officer

Moore, Carol E.
EOP&S

Moore, Valerie
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Moreno, Carla A.
Child Development Center

Morrison, Pamela
Admissions and Records

Moua, Theng K.
Financial Aid

Newman-Ritchards, Toni
Matriculation & Student Development

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Language and Literature Division

Olender-Rowe, Nanci L.
Learning Resources Division

Osorio, Eduardo C.
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Outlaw, Harry E.
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Pair, Gerald W.
Custodial Services

Perry, Marilyn Keefe
Instructional Services

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Pham, Ly
Custodial Services

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Financial Aid Office

Phillips, Jane E.
Learning Resources Division

Pihera, Lynn
Humanities & Fine Arts Division

Pinto, Sheryl
Learning Resources Division

Poncini,Carol A.
Financial Aid Office

Poteet, Rhonda A.
Counseling Services

Pulskamp, Cailin
Child Development Center

Quesada, Charlie P.
Admissions & Records

Quiros, Vivian M.
Financial Aid Office

Radcliff, Toni L.
Custodial Services

Rahimi, Sandra S.
Child Development Center

Raught, David J.
College Store

Redmond, Kaila
Financial Aid Office

Reyes, Laura
Financial Aid

Robertson, Maurice C.
Custodial Services

Robertson, Velisa
Police Dispatcher

Rodriguez, LoriAnn
Financial Aid

Rud, Yelena
EOP&S

Ruiz, Alicia
Counseling Services

Ruiz, Ruben I.
Financial Aid

Salman, Camille A.
Advanced Technology Division

Sanders, Juanita E.
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Scarborough, Cody M.
Child Development Center

Scroggins, Kenneth W.
Child Development Center

Sekikawa, Allison S.
Graphic Impressions

Shoffner, David A.
Custodial Services

Shofner, Robin
Financial Aid

Sieler, Gary W.
Custodial Services

Silva, Donald T.
Humanities & Fine Arts Division

Sisk, Laura A.
Custodial Services

Sivell, Nicole C.
Humanities & Fine Arts Division

Smith, Melody J.
Custodial Services

Smith, Shakeya
Business Office

Smith, Stephanie A.
Administrative Services

Smith, Terri L.
Admissions & Records

Smithson, Pamela K.
Custodial Services

Solorio, Jeanette R.
Financial Aid Office

Souza, Monica M.
Matriculation&Student Development

Stagner, Elaine R.
Counseling Services

Stanton, Patricia P.
Counseling Services

Steeves, Nancy
Counseling Services

Sterken, Dale D.
Business Division

Taylor, Kathleen M.
Instructional Services

Teh, Peng (Hendrich) A.
Language & Literature Division

Teramoto, Amie
Learning Resources Division

Terry, Sharon D.
Staff Resource Center/Information Technology

Thao, Cha P.
Science and Allied Health Division

Thomas, Kelly L.
Language & Literature Division

Tien, Le N.
Science and Allied Health

Tran, Danh
Custodial Services

Tran, Minh N.
Financial Aid

Tran, Ngoc-Hau (Sharlene)
Matriculation/Student Services

Turner, Reginald
Custodial Services

Turnquist, Samantha
Matriculation & Student Development

Tutunik, Valeriy
Learning Resources Division

Uhde, Larry J.
Advanced Technology Division

Ullrey, Robert
President's Office

Umphred, Kandy D.
Admissions and Records

Valverde, Tracey A.
Learning Resources Division

VeVea, Rosemary L.
Admissions & Records

Viracola, Marcia J.
Child Development Center

Watson, Marlene R.
College Store

Weller, Diane Y.
College Store

Whittington, David J.
Physical Education Division

Wilkins, Regina
Student Services

Witherspoon, Bobby
Custodial Services

Wolf, Gary L.
Custodial Services

Wong, Laura E.
Admissions and Records

Wong, Peter W.
Advanced Technology Division

Yagen, Paul
Police Officer

Yee, Domina M.
Business Division

Young, Mary Helen
Child Development Center

Zafires-Bain, Rebecca
College and Community Relations

Zakaryan, Ruzanna
Admissions and Records

Zavala, Manual M.
Custodial Services

Sacramento City College

Faculty

Alphabetical Listing

Ackerman, Alexis L.
Biology (Animal Biology)
B.A., Barnard College / Columbia University, New York
M.S., University of California, Davis
Ph.D., University of California, Davis

Ader, Elaine R. (2001)
Dean, Information Technology
B.A., Brooklyn College
M.A., Ph.D., University of Michigan

Alforque, Angela-Dee (2002)
Theatre Arts
B.A., M.A., California State University, Sacramento

Allen, Kathleen M. (1988)
Vocational Nursing
A.D., Meramec Junior College
B.S.N., Sonoma State University
M.A., California State University, Sacramento

Allred, Mary-Susan (1994)
Counselor
B.A., University of the Pacific
Masters of Counseling, Idaho State University

Altmann, John M. (1997)
Music
B.A., M.A., California State University, San Francisco

Anderson, Kevin M. (2001)
Computer Information Science
B.S., California State University, Fresno
B.S., M.B.A., California State University, Stanislaus
Microsoft Certified Trainer (MCT)
Microsoft Certified Systems Engineer (MCSE)
Microsoft Certified Database Administrator MCDBA)
Microsoft Certified Professional + Internet (MCP + I)
CISCO Certified Network Associate (CCNA)
Certified Novell Engineer (CNE)
Linux Certified Professional (LCP)
A+ Certified Service Technician (A+)
Network + (N+)
i-Net + (inet +)

Armstrong, Joseph W. (2000)
Railroad Operations
A.A.S., Arizona Western College
B.S., San Jose State University
M.A., National University

Arnold, Darlene M. (1996)
Cosmetology
A.A., Sacramento City College
B.S., Southern Illinois University

Avendano, Marisa (2005)
Physical Education
B.S., California State University, Sacramento
M.S., California State University, Sacramento

Bacod, Maristella L. (2001)
Counselor
A.A., Cosumnes River College
B.A., M.S., California State University, Sacramento

Bahhur, Riad N. (2002)
History
B.A., Ohio State University
M.A., Georgetown University

Barfield, Annette C. (1989)
Counselor
A.A., Sacramento City College
B.A., M.S., California State University, Sacramento

Bauduin, Lisa A. (1992)
Physical Education
B.S., North Dakota State University

Belair, Diane M. (2004)
Counselor
M.S., California State University, Sacramento

Bennett, Dianne A. (2002)
Chemistry
B.S., California State University, Sacramento
Ph.D., University of California, Berkeley

Beyrer, Kimberlee D. (1999)
Coordinator, Campus Life
B.A., University of California, San Diego
M.Ed., Oregon State University
Phi Theta Kappa Leadership Development Studies Certification

Bielick, Joanne M. (1989)
Philosophy
B.A., DePaul University
M.A., University of Minnesota

Blair, Deborah M. (1988)
Physical Education
A.A., Ventura Junior College
B.A., California State University, Sacramento
M.A., University of LaVerne (Counseling)

Blanc, Miriam G. (1999)
Spanish
B.A., M.A., California State University, Sacramento

Block, Angela M. (1996)
Sociology
B.S., University of Santa Clara
M.A., California State University, Hayward

Bonawitz, Marcia C. (2000)
Cosmetology
A.A., A.S., Sacramento City College
B.S., Southern Illinois University

Brown, Shirley (1976)
Physical Education
B.A., San Francisco State University
M.A., Mills College
M.S. University of La Verne

Bruce, Thomas E. (1972)
Sociology
B.A., M.A., University of Northern Iowa
M.A., University of San Francisco

Bryant, Deborah M. (1987)
Mathematics
B.A., California State University, Chico
M.A., California State University, Sacramento

Burbage, Gregory M. (1991)
Accounting
A.A., College of the Redwoods
B.A., Humboldt State University
M.B.A., California State University, Sacramento
Certified Public Accountant - California
Certified Management Accountant
Certified in Financial Management

Caldwell, Zoe (2002)
Chemistry
B.S., M.S., California State University, Sacramento

Camarena, Kathleen T. (2001)
Computer Information Science
B.S., University of Davis
M.S., Nova/Southeastern University

Carberry-Goh, Karen (2005)
Biology (Microbiology)
B.S., University of California, Davis
D.V.M., University of California, Davis
M.P.V.M., University of California, Davis
Ph.D., Cornell University

Carlson, Joanne S. (2000)
Nursing
B.S.N., Salem State College
M.N., University of California, Los Angeles

Carmazzi, Paul L. (1991)
Physical Education
A.A., Sacramento City College
B.S., M.A., M.B.A., California State University, Sacramento

Carmichael, David (1987)
Physical Education
B.S., California State University, Fullerton
M.A., Azusa Pacific University

Carriere, Sue R. (1999)
Nursing
AA., Foothill College
B.S.N., University of California, Los Angeles
M.S.N., California State University, Long Beach
Registered Nurse
Clinical Nurse Specialist

Carroll, Robert (1977)
Philosophy
B.A., M.A., Ph.D., University of California, San Diego

Cavanaugh, Judith M. (1974)
Vocational Nursing
B.S., College of St. Catherine
M.A., California State University, Sacramento

Cervin, Richard S. (2001)
English As A Second Language
B.A., California State University, Fullerton
A.M., Ph.D., University of Illinois
TESOL Certificate

Chainey, Susan L. (1983)
English
B.A., State University of New York at Cortland
M.Ed., Ph.D., University of Pittsburg

Chambers, Carole T. (1988)
English
B.A., University of California, Berkeley
M.A., University of San Francisco

Chan, Cheryl (1974)
Dental Hygiene
A.A., Diablo Valley College
B.S., University of California, Davis
M.A.V.E., Consortium of California State University and Colleges
Registered Dental Hygienist

Chape, Elizabeth A. (1993)
Instructor/Coordinator, Physical Therapy Assistant Program
B.A., Michigan State
M.P.T., Baylor University
M.S., San Francisco State University
Licensed Physical Therapist, California and Washington State

Chen, Shu (2002)
Librarian
B.A., Nanjing Normal University
M.A., Southern Illinois
M.L.I.S., University of Texas, Austin

Chenu-Campbell, Catherine (1981)
Librarian
B.A., University of California, Davis
M.S., Columbia University

Clark, Joyce M. (1973)
College Nurse
B.S., San Francisco State University
M.S., University of La Verne
Registered Nurse
Public Health Nurse

Clark, Kevin E. (2002)
Sign Language Studies
B.A., Gallaudet University
M.S., California State University, Northridge
M.A., Chapman College

Clemons, Michael (2005)
Physical Education
B.A., California State University, Sacramento
M.A., University of San Francisco

Cohen, Dale (1981)
Associate Degree Nursing
B.S., M.S., University of Illinois

Collins, James (2005)
Chemistry
B.A., University of Arizona (History/Chemistry)
M.A., University of Arizona
J.D., University of Pacific, McGeorge, Sacramento

Comins, James L. (1981-92) (1999)
Director, Statewide Health Career Grants
B.S., M.S., University of Wisconsin-Madison

Coppola, Jessica D. (2005)
Nutrition
A.S., Santa Rosa Junior College
B.S., University of California, Davis
Ph.D., University of California, Davis

Cornelius, Victoria L. (2002)
Counselor (Athletics)
A.A., Fullerton Community College
B.A., University of California, Riverside
M.S., California Statue University, Sacramento

Copely, Douglas M. (1999)
Physics
A.B., Occidental College
M.S., Ph.D., University of Colorado

Crowe, Billy (1975)
Welding
A.S., Sacramento City College
B.V.E., California State University, Sacramento

Cypret, Phillip B. (1984)
Aeronautics
A.A., Sacramento City College
B.S., Southern Illinois University
M.S., National University

Dalkey, Fredric (1971)
Art
B.A., M.A., California State University, Sacramento

Dana, Maureen L. (2000)
English
B.A., University of California, Santa Barbara
M.A., Ph.D., Claremont Graduate University

Daubert, Christopher D. (2001)
Art
B.A., M.A., California State University, San Jose
M.F.A., University of California, Davis

Davis, Craig A. (2000)
Geography
B.S., University Nebraska
M.A., University of Kansas

Davis-Lyman, Barbara L. (1971)
Family & Consumer Science, Sociology, Psychology
B.A., M.A., California State University, Sacramento

Deglow, Annette (1964)
Mathematics
B.S., University of Oregon
M.S., University of Arizona
M.L.S., California State University, Sacramento

DeLucia, Andrew W. (1972)
Photography
A.A., Sacramento City College
U.S.A.F., Photography School
B.V.E., California State University, Sacramento

Deus, Richard A. (1990)
Computer Information Science/Business
B.S., California State Polytechnic University, Pomona
M.B.A., San Francisco State University

Dewar Jr., Robert E. (2004)
Physical Education
B.A., California State University, Stanislaus
M.A., University of Phoenix

Dixon, Michael A. (1990)
Computer Information Science
B.S., California State University, Chico
M.S., National University

Doersch, Ann D. (2002)
English
B.A., M.A., Stanford University
M.A., California State University, Sacramento

Doonan, William F. (1999)
Anthropology
B.A., Brown University
M.A., Ph.D., Tulane University

Douglass, Bruce M. (1997)
Computer Information Science
B.SC.S., B.S.E.E., M.E., M.E.A., University of Utah, Salt Lake City
Certified Data Processor

Dun, Lawrence G. (1996)
Dean, Matriculation, Student Services, and Student Development
B.A., University of California, Davis
M.A., California State University, Sacramento

Dunne, Michael (1974)
Director, Dental Health
B.A., California State University, Chico
D.D.S., Creighton University

Duvall, Melvin (1983)
Electronics Technology
A.A., Sacramento City College
B.A., California State University, Sacramento
FCC - General Radiotelephone License
Movonics Co. - Understanding and Troubleshooting Microprocessors - Certificate
Cal State Polytechnic University, Pomona-NARDA School of Service Management - Certificate

Erlich, Richard J. (2001)
Counselor, DSPS
B.A., Butler University
M.Ed., Teacher College Columbia University
Certified Rehabilitation Counselor

Esquibel, George A. (1972)
Art
B.A., California State University, Sacramento

Fabionar, David E. O. (2002)
Communication
B.S., M.A., California State University, Sacramento

Fabionar, Maria O. (1990)
Counselor
B.A., M.S., California State University, Sacramento

Feder, Sandra H. (1997)
Computer Information Science
B.S., University of California, Davis
M.S., University of Nevada, Reno
APICS Certification, Certified in Production and Inventory Management

Finley, Phillip E. (1991)
Engineering Design Technology
B.A., University of Oregon
Registered Architect, Alaska and California

Fitzpatrick, Kenneth E. (1999)
Engineering Design Technology
B.S., Oakland University

Flaherty, Pamela L. (2000)
Sociology
B.A., University of Wyoming
M.A., California State University, Chico

Fleming, George Richard (1969)
Photography
A.A., Sacramento City College
B.V.E., California State University, Sacramento

Foley, Jo-Ann C. (1999)
Family and Consumer Science
B.S., University of California, Davis
M.A.Ed., University of San Francisco

Fong, Susan H. (1989)
Counselor (International Students)
A.A., Sacramento City College
B.A., San Francisco State University
M.S., National University

Ford, Rebecca J. (1989)
English as a Second Language
B.A., M.A., University of California, Davis

Forrester, Elizabeth V. (2000)
Philosophy
A.B., Cedar Crest College
M.A., California State University, Sacramento
M.A., Ph.D., University of California, Davis

Frank, Paul E. (2001)
Political Science
B.A., California State University, Fresno
M.A., Northeastern University
Ph.D., Boston University

Gallup, Ernest E. (2004)
Motorcycle/Aeronautics
A.S., Sacramento City College

Garcia, Albert J. (1991)
Dean, Division of Language and Literature
B.A., California State University, Chico
M.F.A., University of Montana

Garcia, Mari Carmen (2005)
Spanish
B.A., California State University, Sacramento
M.A., University of California, Davis
Ph.D., University of California, Davis

Garr, Nancy M. (2001)
Anthropology
B.A., M.A., California State University, Chico
Certificate, Cultural Resources Management, California State University, Chico

Gary, Lara K. (2002)
English
B.A., M.A., California State University, Fresno
Ph.D., University of California, Davis

Gessford, Virginia G. (2001)
Coordinator, Learning Skills/Tutorial
B.A., Pitzer College
M.A., Claremont Graduate University

Ginsburg, Liz (1972)
Spanish
B.A., California State University, Sacramento
M.A., Ph.D., University of California, Davis

Gomez, Lupe M. (1990)
Counselor
B.A., University of California, Davis
M.A., California State University, Sacramento

Gonzalez, Mauricio (2005)
Coordinator, EOP&S
A.A., Cuesta Community College
B.A., Sonoma State University
M.A., San Jose State University

Gonzales, Stephen T. (2001)
Mathematics
B.S., M.S., California State University, Chico

Gore, Robert W. (1996)
Theatre Arts
B.A., California State University, Fresno
M.F.A., California State University, Fullerton

Gould, Kelly L. (2004)
Administration of Justice
B.A., Central University of Iowa
M.S.W., California State University, Sacramento

Graybill, Stuart D. (2001)
History
B.A., M.A.T., Ph.D., University of California, Davis

Green, Melissa J. (2000)
Coordinator, Instructional Development
B.A., California Polytechnic State University
M.S., National University

Greenfield, Joan (1974)
Dental Assisting
A.A., Sacramento City College
B.V.E., California State University, Sacramento

Greenwell, Andrea (2002)
Biology
B.S., University of California, Davis
M.S., University of Nevada, Reno

Griffin, David A. (1995)
Physical Education
B.A., California State University, Chico
M.A., National University

Gunderson, Lisa M. (2003)
Psychology
B.A., M.A., Ph.D., University of Southern California

Haag, Janis L. (1993)
Journalism/English
B.A., M.A., California State University, Sacramento

Hagerty, David D. (2002)
Human Career Development (Learning Strategies)
B.A., Vassar College
M.S., California State University, Hayward

Handel, Janet L. (1987)
Mathematics
A.A., Diablo Valley College
B.S., California State University, Hayward
M.S., Holy Names College

Handy, Mae Frances (Fran) (2005)
Cosmetology
A.A., San Jose City College
A.A., Sacramento City College

Hanson, Jon S. (2001)
English
B.A., M.A., California State University, Sacramento

Hanson, Luther E. (1999)
Theatre Arts
B.A., M.F.A., University of Irvine
M.A., San Diego State University

Harbison, Mark F. (2002)
Mathematics
B.A., University of California, Davis
M.A., San Diego State University

Harris, Patricia A. (2005)
Physical Therapy Assistant Program
B.A., University of California, Berkeley
M.S., Long Island University, New York
Ed.D., University of San Francisco, SF

Harris-Jenkinson, Patricia M. (1999)
Instructor/Coordinator, Speech Communication
B.S., M.A., California State University, Sacramento

Hatton, Ronald (1981)
Mathematics
B.S., M.A., California Polytechnic State University, San Luis Obispo

Hawthorne, Julie A. (1989)
Speech/English
A.A., Santa Barbara City College
B.A., University of California, Santa Barbara
M.A., California State University, Sacramento
Certificate in Advanced Facilitation, CFIER/CCS, California Foundation for Improvement of Employer-Employee Relations

Heimer, Dianne L. (1997)
English/Journalism
B.A., San Diego State
M.A., California State University, Sacramento

Henderson, Victoria (1998)
Coordinator, Cultural Awareness Center
B.S., M.S.W., Western Michigan University
M.S.H.R., American University

Heningburg, Keith R. V. (1999)
History
A.A., Washtenaw Community College
B.S., M.A., Eastern Michigan University
M.A., University of California, Davis

Hilligoss, Tonya (1977)
Administration of Justice, Sociology
B.A., University of California, Santa Barbara
M.S.W., San Diego State University
M.A., University of California, Davis
Marriage and Family Therapist

Hinerman, James (1975)
Counselor
B.S., M.Ed., Bowling Green University

Hogarty, Patrick J. (2000)
Computer Information Science/Business
B.S., California State University, Sacramento

Holt, Julie A. (1999)
Associate Degree Nursing
B.S.N., California State University, Chico
M.S.N., University of Colorado Health Science Center

Huang, Ling (2001)
Chemistry
B.S., East China Normal University, Shanghai
Ph.D., University of California, Davis

Hunter, Michael J. (1990)
Geography
A.A., Sacramento City College
B.A., M.A., University of California, Davis

Hussey, Susan M. (1995)
Instructor/Coordinator, Occupational Therapy Assistant Program
B.S., Santa Clara University
M.S., San Jose State University
Certified, National Board for Certification in Occupational Therapy

Ida, Richard (2005)
Associate Vice President, Instruction
A.B., University of California, Berkeley
M.S., Purdue University

Ikegami, Robin U. (1999)
English
B.A., M.A., California State University, Sacramento
Ph.D., University of Michigan

Iley II, William H. (2003)
Physics
B.S., M.A., University of California, Davis

Ing, Celina Sau Lin (1977)
Computer Information Science
B.A., College of Notre Dame
M.A., Ed.D., University of San Francisco

Irwin, Doreen (1975)
Music
B.Mus.Ed., M.Mus.Ed., University of Portland

Isbell, Margaret (Maggie) A.
Chemistry
B.S., Marymount College, Kansas
M.A., University of Alaska, Fairbanks
Ph.D., University of Alaska, Fairbanks

Iwata, Chris R. (1982)
Dean, Division of Humanities and Fine Arts
B.A., M.A., California State University, Northridge

James, Stephen C. (2001)
Biology
A.A., Glendale Community College
B.A., University of California, Santa Barbara
M.S., California State University, Sacramento

Janssen-Kays, Kristine (2000)
Counselor
A.A., Yuba Community College
B.A., California State University, Sacramento
M.A., University of San Francisco

Johnson, Denise M. (2005)
Biology (Anatomy & Physiology)
B.S., University of California, San Diego
M.S., University of California, Davis

Johnson, Judy A. (2002)
Nursing
A.A., El Camino College
M.S.N., B.S.N., California State University, Los Angeles

Johnson, Lawrence F. (1999)
Aeronautics
A.S., Chaffey College
B.S., California State Polytechnic University, Pomona

Johnson, Mai-Gemu D. (1993)
Coordinator, MESA/CCCP
A.A., Sacramento City College
B.S., Arcadia University, Nova Scotia, Canada
M.A., California State University, Sacramento

Jolly, Julia A. (1988)
Associate Vice President, General Education and Outreach Programs
B.A., University of Oregon
M.A., University of California, Davis

Jones, Andrew B. (2001)
Physical Education
B.A., University of California, Berkeley
M.S., California State University, Sacramento

Jovanovic, Angelia (1991)
Counselor
B.A., University of Wisconsin
M.S., Marquette University

Joy, Anna L. (1987)
English
B.A., M.A., Ph.D., University of California, Los Angeles

Kalber, Thomas F. (1979)
Mechanical-Electrical Technology
A.S., Sacramento City College
B.S., Southern Illinois University

Kawamura, Sandra Y. (2001)
English As A Second Language
B.A., University of California, Davis
M.A., California State University, Sacramento

Keen, Judith L. (1996)
English As A Second Language
B.A., Lewis & Clark College
M.A., School for International Training

Keys, Alan S. (2000)
Instructor/Coordinator, Psychology/ Research
B.A., California State University, Northridge
M.A., Ph.D., University of California, Los Angeles

Kidrick, Valerie A. (2000)
Art
B.A., M.A., University of Utah
Ph.D., University of Iowa

Kiernan, Timothy C. (1991)
Physical Education
A.A., American River College
B.S., M.A., Central Michigan University

King, Adrienne M. (1992)
English
B.A., Hampton Institute
M.Ed., Miami University (Ohio)
Ed.D., University of San Francisco
Reading Specialist Credential

King, Elizabeth R. (1999)
Business/Computer Information Science
B.B.A., Northwood University
M.B.A., Eastern Michigan University

Klein, Linda (1981)
English (Reading)
B.A., University of Florida
M.A., California State University, Chico

Kloumova, Irina (1999)
Mathematics
M.A., Moscow State University

Knable, Robert D. (1989)
Music
B.M., University of Southern California
M.M., University of Arizona

Knorr, Jeffrey, S. (2001)
English
B.A., M.A., California State University, Chico

Kumar, Shishir (1999)
Electronics Technology
B.S., Brigham Young University

Kunimura, Karen (1976)
Physical Education
A.A., Gavilan College
B.A., California State University, Fresno
M.A., University of San Francisco

Lachica, Juan (1976)
Counselor
B.A., University of California, Davis
M.S., University of Southern California

Lannom, Debra L. (1997)
Nursing
A.A., Contra Costa College
B.S., M.S., California State University, Sacramento
Registered Nurse
Certification, Red Cross CPR Instructor
Certification, Medical-Surgical Nurse Board, American Nurses Credentialing Center

Larson, Carillon J. (2001)
Mathematics
B.A., M.A., California State University, Sacramento

Larson, Marie C. (1991)
English As A Second Language
B.A., Occidental College
M.A., San Jose State University

Lawson, Douglas R. (2000)
Theatre Arts
B.A., California State University, Sacramento
M.F.A., University of California, Davis

Lee, Jan (2000)
English
B.A., University of California, Davis
M.A., California State University, Sacramento

Lewis, Ann (2001)
English
A.S., Yuba College
B.A., University of California, Davis
M.A., California State University, Sacramento

Licciardi, Anne E. (1999)
Interim Dean, Division of Mathematics/ Statistics, and Engineering
B.A., M.A., Rhode Island College

Lindell, Pamela N. (2001)
Anthropology
B.A., California State University, Humboldt
M.A., Ph.D., University of Nevada, Reno

Lo, Sandra J. (1989)
Dental Assisting
B.A., University of California, Berkeley
D.D.S., Baylor College of Dentistry, Texas

Loomis, Debora A. (1994)
English As A Second Language
B.A., M.S., M.A., California State University, Sacramento

Lopez, Gloria M. (1990)
Family and Consumer Science
B.S., University of California, Davis
M.A., University of San Francisco

Low, Stephanie (2001)
Computer Information Science
Certificate, Online Teaching, Cerro Coso Community College
B.S., M.S.Ed., Southern Illinois University

Lucien, Darreis V. (1988)
Associate Degree Nursing
A.A., El Camino City College
B.S.N., Long Beach State University
M.N., University of California, Los Angeles

Luff, Debra J. (2000)
Dean, Downtown/West Sacramento Centers
A.S., North Country Community College
B.S., Russell Sage College
M.S., Syracuse University
Ed.D., University of the Pacific

Maga, Pat
Interim Dean, Admissions & Records, Financial Aid & EOP&S
A.A., Sacramento City College
B.S., California State University, Sacramento
M.A., National University

Maglione, Robert A. (2001)
Physical Education
B.A., College of Marin
M.A. Saint Mary's College

Malaret, Jesus F. (1998)
Dean, Division of Behavioral and Social Sciences
B.A., University of Texas
M.A., California State University, Sacramento

Maller, Yvonne B. (1993)
Dean, Division of Learning Resources
M.A., University of Silesia, Poland
M.A., California State University, Sacramento

Maloney, Lori A. (1988)
Mathematics
A.A., Santa Rosa Junior College
B.A., San Francisco State University
M.A., University of California, Davis

Maloyed, Lynda L. (1997)
Vocational Nursing
A.A., Sacramento City College
B.S.N., California State University, Domingues Hills

Martinelli, Robert J. (2005)
Vice President, Administration Services
B.A., San Francisco State University
M.A., Golden Gate University; HR Management Certification, Chapman University, Sacramento

Martinez, Jesus E. (1994)
Mathematics
A.A., East Los Angeles College
B.A., M.S., California State University, Los Angeles

Martensen, Carol B.G. (2000)
Coordinator, Mathematics Laboratory
A.B., University of California, Berkeley
M.S., New York University, Courant Institute

Maschmeyer, Marie L. (1974)
Family & Consumer Science
B.S., Oregon State University

Masterson, Patricia J. (1999)
Sign Language Studies
A.A., Sacramento City College

May, Alexander R. (1996)
Mathematics
B.A., M.A., California State University, Sacramento

May, Virginia S. (1997)
Mathematics
B.A., M.A., California State University, Sacramento

McDaid, William J. (2001)
Astronomy
B.S., Pennsylvania State University
M.S., New Mexico State University

McDonald, Patrick J. (2002)
Mathematics
B.A., California State University, Fullerton
M.A,. California State University, Sacramento

McDonald, Stephanie R. (2000)
Librarian
B.S.Ed., Temple University
M.L.S., University of Hawaii

McKay, Ryan A. (2000)
Physical Education
A.A., Sacramento City College
B.A., M.B.A., California State University, Sacramento

McKee, Georgeann M. (1996)
Administration of Justice
A.A., Sacramento City College
B.A., National University

McReynolds, Virginia R. (1986)
English/Journalism
B.A., M.A., California State University, Sacramento

Medina, Renee M. (2001)
Mathematics
B.A., M.A., California State University, Sacramento

Mendez-Nunez, Luis R. (1999)
Mathematics
B.S., M.S., University of Madrid
Ph.D., University of Davis

Meyer, Virginia C. (1996)
Biology
A.A., College of the Redwoods
A.B., Humboldt State University
M.S., California State University, Sacramento
Clinical Laboratory Technologist License, California

Miller, William JW (2000)
Chemistry
B.S., University of Delaware
Ph.D., University of California, Davis

Miner, Thomas E. (1991)
English
Certificate, English as a Second Language
B.A., University of Connecticut
M.A., SUNY, Albany

Minter, Carol D. (2000)
Dental Health
A.S., Cuyahoga Community College
B.S., California State University, Sacramento

Moffett, Nelle (2000)
Dean, Planning, Research and Institutional Effectiveness
B. A., Antioch College
M. A., Ph.D., Arizona State University

Muraki, Keith T. (1991)
Counselor
B.S.W., M.S.W., San Francisco State

Myers, Troy A. (1999)
English
B.A., M.A., California State University, Long Beach

Naganuma, Kenneth H. (1990)
Biology
B.A., University of California, Los Angeles
M.S., Ph.D., Stanford University

Nash, Laurie J. (2003)
Physical Education
A.A., American River College
B.A., California State Polytechnic University, Pomona
M.A., California State University, Sacramento

Newman, Forrest L. (1992)
Physics
A.A., American River College
B.S., University of California, Davis
M.A., University of California, Berkeley
Ph.D., University of California, Davis

Ng, Wang, C. (1997)
Electronics Technology
A.A., Sacramento City College
B.S., M.S., Ph.D., University of California, Davis
M.S., California State University, Chico
Registered Professional Engineer (P.E.), California

Nunnally-Robertson, Delecia (2005)
Dean, Division of Counseling and Student Success
A.S., Solano College
B.S., University of Phoenix
M.B.A., University of Phoenix

Nuss, Linda M. (2002)
Chemistry
B.S., M.S., University of California, Riverside
M.A., National University

Nuttall, Gabriella G.
English as a Second Language
B.A., Universita de degli Studi, Italy
M.A., California State University, Sacramento

Oh, Jang-Ha (2002)
Physical Education
B.S., M.Ed, Seoul National University

Ovesen, Dawn R. (2002)
Sign Language Studies
B.A., Gallaudet University

Pacheco, David B. (1999)
Physical Education
A.A., Sacramento City College
B.A., Idaho State University
M.S., California State University, Sacramento

Palm, Donald R. (2001)
History
B.A., University of Washington
M.A., San Francisco State University

Parker, Leslie A. (2005)
Counselor, Learning Disabilities Specialist
B.A., University of California, Los Angeles
M.S., University of Laverne,
M.A., California State University, Sacramento

Patton, Marcus H. (1991)
English
B.A., M.A., California State University, Sacramento

Patton, Sherri L. (2001)
History
B.A., San Francisco State University
M.A., University of California, Davis

Pease, Dyan S. (2002)
Business/Management
B.A., M.B.A., San Diego State University

Perry, Laurie M. (2000)
Instructor/Coordinator, Early Childhood Education
B.A., University of Montana
M.S., University of California, Davis
Program for Infant Toddler Caregiving Trainer
Child Development Center Program Director Permit

Phillips, Joseph H. (1988)
Mathematics
A.A., American River College
B.A., California State University, Chico
M.S., Iowa State University

Phillips, Maxine C. (1989)
Counselor
B.A., M.S., California State University, Hayward

Piscopo, Holly A. (2005)
History (U.S. and Asian)
B.A., San Diego State University
M.A., University of California, Santa Cruz

Pitman, Gayle E. (2001)
Psychology
B.A., Tufts University
M.A., Ph.D., California School of Professional Psychology, Alameda

Pollock, Koren (1997)
Physical Education
B.A., University of California, Davis
M.A., University of San Francisco

Posz, Pamela A. (1998)
Librarian
B.A., University of California, Davis
M.S., University of Illinois

Prado, JoAnna (2002)
English As A Second Language
B.A., B.S., University of Utah
M.A., Brigham Young University

Quackenbush, Mary A. (2001)
Computer Information Science
B.A., M.A., California State University, Sacramento

Rasul, David D. (1997)
Counselor
B.A., M.S., California State University, Sacramento

Redmond, Patti, A. (1989)
Speech
A.A., A.S., Imperial Valley College
B.A., California State University, Long Beach
M.A., Pepperdine University

Reese, Rick (2000)
Counselor
A.A., Solano Community College
B.A., M.S., California State University, Sacramento

Regalado, Maria C. (2005)
Psychology
A.S., Yuba College
B.A., California State University, Sacramento
M.A., California State University, Sacramento

Reynolds, Linda K. (1988)
Marketing
B.S., M.B.A., California State University, Sacramento

Richardson, Michael B. (1986)
Physics
B.A., California State University, Sacramento
M.A., University of California, Davis

Rishard, Truman A. (2001)
Accounting
B.S., University of San Francisco
M.B.A., Golden Gate University

Robinson, Mary A. (1998)
Librarian
B.A., University of California, Santa Barbara
M.A., M.L.S., University of Arizona
M.A., University of Hawaii

Rodenberg, Jennifer A. (2003)
Chemistry
B.S., California State Polytechnic University, Pomona
M.A., San Jose State University

Roffey, Robin A. (1997)
Biology
A.A., Santa Fe Community College
B.S., University of Florida
Ph.D., Ohio State University

Romero, Danny A. (2003)
English
B.A., University of California, Berkeley
M.A., Temple University

Roper, Susan W. (1995)
Chemistry
B.S., California State University, San Francisco
M.S., California State University, Sacramento

Rosario, Victoria (2005)
Interim Director, Student Services & Initiatives
B.A., University of Hawaii
M.S., California State University, Long Beach

Rose, Gregory S. (1989)
Economics
B.A., University of California, Irvine
M.A., University of California, Davis

Rosenberger, Randy E. (1991)
Mathematics
B.S., California State University, Dominguez Hills
M.S., California State University, Los Angeles

Roundtree, Lorilie A. (2000)
Librarian
A.A., American River College
B.A., California State University, Sacramento
M.L.S., San Jose State University

Ruden, John E. (1969)
Dean, Davis Center
A.B., M.A., University of California, Davis

Ruedas, Sandra R. (2001)
EOP&S Counselor
A.A., Sacramento City College
B.A., M.S., California State University, Sacramento
Pupil Personnel Services Credential

Sanchez, Michael (1981)
Mathematics
B.A., M.A., California State University, Sacramento

Sarasohn, Eileen S. (1991)
History
A.A., Sacramento City College
B.A., University of California, Berkeley
M.A., California State University, Sacramento

Sarte, Jaime M. (1999)
Biology
A.A., Ohlone College
B.A., University of California, Santa Cruz
M.A., San Jose State University

Schaefer, David H. (2002)
Business/Marketing
B.A., University of California, Santa Cruz
M.B.A., Harvard University

Scott, Geraldine (2001)
Counselor
A.A., College of San Mateo
B.A., M.S., San Francisco State University

Seddon, Christopher T. (2001)
Coordinator, Technology Computer Laboratory
B.A., California State University, Long Beach
M.A., San Jose State University

Segal, Jonathan E. (2005)
Mathematics
B.A., California State University, Sacramento
M.A., California State University, Sacramento

Selva, Marcia L. (2000)
English
B.A., University of California, San Diego
M.A., California State University, Sacramento

Serafini, Lisa L. (1993)
Biology
B.S., University of Michigan
M.S., University of California, Davis

Severson, Michael L. (1996)
Speech
B.A., California State University, Stanislaus
M.A., California State University, Fresno

Shaskan, Isabel (1968)
Art
B.A., Stanford University
M.A., Brandeis University
M.A., University of California, Davis

Sheppard, Laurie C. (2000)
Nursing
B.S.N., San Diego State University
M.S.N., San Jose State University
Registered Nurse

Sheppard, Marian L. (1986)
Counselor
B.A., M.MEd., M.A., University of the Pacific
Marriage and Family Therapist

Short, Shirley J. (1982)
Dean, Division of Business
A.A., City College of San Francisco
B.A., M.A., California State University, Sacramento

Silcox, S. Travis (1998)
English
B.A., Pitzer College
M.F.A., University of California, Irvine
M.A., Ph.D., University of Santa Cruz

Siu, Jennifer H. (1989)
Vocational Nursing
B.S.N., University of San Francisco
M.S.N., University of Texas, Health Science Center

Sjovold, Carl-Petter (2001)
History
Certificate, Online Instruction, Cerro Coso College
B.A., University of California, Berkeley
M.A., Ph.D., University of California, Davis

Slobodnik, Wendy J. (1999)
Coordinator, Work Experience Education
B.A., M.A., California State University, Sacramento

Smedley, Lauri J. (1999)
Business/Computer Information Science
A.A., Cosumnes River College
B.V.E., California State University, Sacramento
M.S., Golden Gate University, Sacramento

Smith, Dennis R. (1997)
Accounting
B.S., M.S., California State University, Sacramento

Sodergren, Kit (1989)
Aeronautics
B.S., Saint Louis University
F.A.A. Licensed Pilot

Somadhi, Kakwasi (2005)
Learning Skills/Tutorial Coordinator
A.A., Compton Jr. College
B.A., University of California, Los Angeles
M.A., Goddard College

Spangler, Rachel I. (2005)
Reading
B.A., University of California, Davis
M.A., California State University, Los Angeles

Standley, Ellen (1973)
Dental Hygiene
B.S., University of California Medical Center
M.A., University of San Francisco

Stanton, Kathryn J. (2004)
Geology
B.A., University of California, Davis

Steward, Mary M. (2001)
English
B.S., M.Ed., University of Missouri

Stroh, Linda L. (1983)
Economics, Accounting
B.S., Eastern Illinois University
M.A., California State University, Fresno

Styer, Daniel L. (2003)
Engineering
B.S., California State University, Sacramento
Ph.D., University of California, Davis

Sullivan, Jerry (1980)
Physical Education
B.S., M.Ed., Oregon State University

Takanikos, John (1969)
History
A.A., Sacramento City College
A.B., M.A., Ph.D., University of California, Davis

Takeguchi, Elsie (1976)
Family & Consumer Science
A.A., Reedley College
B.S., Iowa State University
M.A., California State University, Sacramento

Tambert, Roxanne R. (1997)
Cosmetology
A.A., Sacramento City College
B.A., Southern Illinois University

Tanner, Judith (1974)
College Nurse
B.S.N., University of Illinois
M.S., University of California School of Nursing
Registered Nurse
Public Health Nurse

Taylor, Timothy K. (1998)
Computer Information Science
A.A., American River College
B.A., Brigham Young University
B.S., California State University, Sacramento
CISCO Certified Academy Instructor

Tedla, Dagne (1991)
Political Science
B.A., M.A., California State University, Sacramento

Thomas, D. Brett (1997)
English As A Second Language
B.A., Tufts University
M.A., University of California, Davis
M.A., Indiana University

Thomas-Val, Jacinth P. (2001)
English
B.A., University of the Virgin Islands
M.A., Andrews University
M.A., Ph.D., University of Illinois

Thorpe, W. Steve (1991)
Administration of Justice
A.A., Sacramento City College
B.A., California State University, Sacramento
M.A., Consortium of California State University

Tibbals, Kathleen A. (2001)
Early Childhood Education
A.A., American River College
B.A., Chapman University
M.S., Nova University

Torgeson, Gary E. (1994)
Dean/Athletic Director, Division of Physical Education, Health & Athletics
B.A., M.A., California State University, Northridge

Tracy, Gwyneth J. (2005)
DSPS Coordinator/Counselor
B.A., California State University, Hayward
M.A., Washington State University
Ed.D., Oregon State University

Travis, Deborah J. (2000)
Vice President, Instruction
B.A., California State University, Irvine
M.B.A., California State University, Long Beach

Triphon, Joann E. (1998)
Associate Degree Nursing
A.D.N., Chabot College
B.S.N., M.S.N., California State University, Sacramento

Tromborg, Chris T. (2002)
Psychology
B.S., M.A., California State University, San Francisco
M.A., Ph.D., University of California, Davis

Turner, Mary K. (1985)
Dean, Division of Science and Allied Health
A.A.S., Hawkeye Institute of Technology
B.S., M.S., University of Missouri at Kansas City

Tyler, Arthur Q. (2005)
A.A., Air Force Community College
B.S., University of Maryland
M.A., U.S. Naval Post-Graduate School

VanSickle, Debra L. (1990)
Mathematics
B.A., M.A.T., University of California, Davis

Vellucci-Jones, Renee L. (1995)
Vocational Nursing
A.A., Sacramento City College
B. A., California State University, Sacramento
M.S.N., California State University, Dominguez Hills

Vrechek, Jean A. (1985)
Mathematics
B.S., University of Illinois
M.A., San Jose State University

Wagner, Glennda G. (1999)
Associate Degree Nursing
B.S.N., Wichita State University
M.S., University of California, San Francisco

Waite, Ava M. (1984)
Family & Consumer Science
A.A., Sacramento City College
B.A., California State University, Fresno
M.S., Colorado State University

Walker, Norman M. (2001)
Mathematics
B.S., M.A., University of California, Davis

Wang, Hsiao J. (1989)
Mathematics
B.A., National Taiwan University
M.S., California State University, Fresno

Warmington, Sandra K. (1996)
Librarian
B.S., University of Oregon
M.L.I.S., University of California, Berkeley

Warrell, Patricia L. (1998)
Nursing
A.D.N., University of Hawaii
B.S.N., M.N., University of Phoenix

Waxman, Robyn B. (1999)
Graphic Communication
B.S., University of Delaware

Webb, Donnetta (2005)
Dean, Division of Advanced Technology
B.A., St Mary Woods, IN
M.S., University of Nebraska, Lincoln NE

Webster, Mark K. (2004)
Mathematics
B.A., M.S., San Jose State University

Wei, Timothy T. (2001)
Computer Information Science
B.S., Cheng Kung University, Taiwan
M.S., University of Berkeley

Weinsheink, Shawn E. (2004)
Theatre Arts
B.A., San Diego State University
M.F.A., San Francisco State University

Whipple, Charles H. (2002)
Sociology
A.A., Santa Rosa Junior College
B. A., University of California, Santa Barbara
M.A., San Diego State University
M.A., University of California, Santa Cruz

Wicks, Debra S. (1996)
Associate Degree Nursing
A.D.N., College of Sequoias
B.A., California Polytechnic State University, San Luis Obispo
B.S.N., M.S.N., California State University, Sacramento

Wilbur, Constance A. (1997)
Counselor/Coordinator, Disability Resource Center
B.A., San Diego State University

Wilson, Emily J. (2005)
Art
B.F.A., Utah State University
M.F.A., University of Arizona

Woo, Jane
Counselor
B.S., California State University, Sacramento
M.A., National University, Sacramento

Woolley, Nicole (1998)
Librarian
Certificate, Online Teaching, Cerro Coso College
B.A., California State University, Sacramento
M.L.I.S., Louisiana State University

Womach, Jesse F. (1999)
Philosophy
B.A., M.A., University of California, Davis
M.A., California State University, Sacramento

Wyatt, David T. (1998)
Biology
A.S., American River College
B.S., M.S., California State University, Sacramento

Wydick, Derrick C. (1999)
Counselor/Coordinator, Workability III Program (Categorical)
M.A., California State University, Chico

Xiao, Alex H. (2005)
Political Science
B.A., Beijing Foreign Language Institute, Beijing, China
M.A., Claremont Graduate University
M.A., University of Southern California
Ph.D., University of Southern California

Yang, Richard (1997)
Counselor / Transfer Center
B.A., M.A., California State University, Sacramento

Zamora, Frank (1991)
Art
B.S., M.A., Bob Jones University
M.F.A., Claremont Graduate School

Zannakis, Amanda (1997)
Computer Information Science
B.S., M.S., California State University, Sacramento

Zenner, Bruce D. (1998)
Chemistry
B.A., University of California, Santa Cruz
Ph.D., University of California, Davis

Zuercher, Connie A. (1989)
Physical Education
B.A., University of California, Davis

Faculty

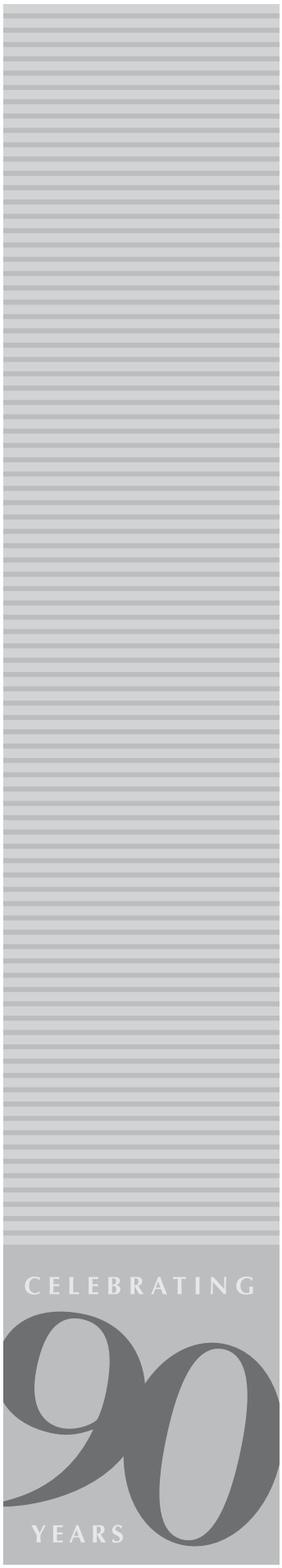
Listing by Division

Division of Advanced Technology

Armstrong, Joseph
Arnold, Darlene
Bonawitz, Marcia
Brooks, Bradley
Crowe, Billy
Cypret, Phillip
DeLucia, Andrew
Duvall, Melvin
Finley, Phillip
Fitzpatrick, Kenneth
Fleming, George
Gallup, Ernest E.
Handy, Mae Frances (Fran)
Johnson, Lawrence
Kalber, Thomas
Kumar, Shishir
Ng, Wang
Seddon, Christopher
Sodergren, Kit
Tambert, Roxanne
Waxman, Robyn

Division of Behavioral and Social Science

Bahhur, Riad
Block, Angela
Bruce, Thomas
Coppola, Jessica
Davis, Craig
Davis-Lyman, Barbara
Doonan, William
Flaherty, Pamela
Foley, Jo-Ann
Frank, Paul
Garr, Nancy
Gould, Kelly L.
Graybill, Stuart
Gunderson, Lisa
Heningburg, Keith
Hilligoss, Tonya
Hunter, Michael
Keys, Alan
Lindell, Pamela
Lopez, Gloria
Malaret, Jesus
Maschmeyer, Marie
McKee, Georgeann
Palm, Donald
Patton, Sherri
Perry, Laurie
Piscopo, Holly
Pitman, Gayle
Regalado, Maria
Sarasohn, Eileen
Sjovold, Carl-Petter
Takanikos, John
Takeguchi, Elsie
Tedla, Dagne
Thorpe, W. Steve
Tibbals, Kathleen
Tromborg, Chris
Waite, Ava
Whipple, Charles
Xiao, Alex H.



Division of Business

Anderson, Kevin
Burbage, Gregory
Camarena, Kathleen
Deus, Richard
Dixon, Michael
Douglass, Bruce
Feder, Sandra
Hogarty, Patrick
Ing, Celina
King, Elizabeth
Low, Stephanie
Pease, Dyan
Quackenbush, Mary
Reynolds, Linda
Rishard, Truman
Rose, Gregory
Schaefer, David
Smedley, Lauri
Smith, Dennis
Stroh, Linda
Taylor, Timothy
Wei, Timothy
Zannakis, Amanda

Division of Humanities and Fine Arts

Alforque, Angela-Dee
Altmann, John
Bielick, Joanne
Blanc, Miriam
Carroll, Robert
Clark, Kevin
Dalkey, Fredric
Daubert, Christopher
Esquibel, George
Fabionar, David
Forrester, Elizabeth
Garcia, Mari Carmen
Ginsburg, Liz
Gore, Robert
Hanson, Luther
Harris-Jenkinson, Patricia
Hawthorne, Julie
Irwin, Doreen
Kidrick, Valerie
Knable, Robert
Lawson, Douglas
Masterson, Patricia
Ovesen, Dawn
Redmond, Patti
Severson, Michael
Shaskan, Isabel
Weinsheink, Shawn E.
Wilson, Emily
Womack, Jesse
Zamora, Frank

Division of Language and Literature

Cervin, Richard
Chainey, Susan
Chambers, Carole
Dana, Maureen
Doersch, Ann
Ford, Rebecca
Garcia, Albert
Gary, Lara
Haag, Janis
Hanson, Jon
Heimer, Dianne
Ikegami, Robin
Joy, Anna
Kawamura, Sandra
Keen, Judith
King, Adrienne
Klein, Linda
Knorr, Jeffrey
Larson, Marie
Lee, Jan
Lewis, Ann
Loomis, Debora
McReynolds, Virginia
Miner, Thomas
Myers, Troy
Nuttall, Gabriella
Patton, Marcus
Prado, JoAnna
Romero, Danny
Selva, Marcia
Silcox, S. Travis
Spangler, Rachel
Steward, Mary
Thomas, D. Brett
Thomas-Val, Jacinth

Division of Learning Resources
Chen, Shu
Chenu-Campbell, Catherine
Gessford, Virginia
Green, Melissa
Maller, Yvonne
McDonald, Stephanie
Posz, Pamela
Robinson, Mary
Roundtree, Lorilie
Somadhi, Kakwasi
Warmington, Sandra
Woolley, Nicole

Division of Mathematics/Statistics & Engineering
Bryant, Deborah
Deglow, Annette
Fasman, Lyudmilla (Lucy)
Gonzales, Stephen
Handel, Janet
Harbison, Mark
Hatton, Ronald
Johnson, Mai-Gemu
Kloumova, Irina
Larson, Carillon
Licciardi, Anne
Maloney, Lori
Martinez, Jesus
Martensen, Carol
May, Alexander
May, Virginia
McDonald, Patrick
Medina, Renee
Mendez-Nunez, Luis
Phillips, Joseph
Rosenberger, Randy
Sanchez, Michael
Segal, Jonathan
Styer, Daniel
Van Sickle, Debra
Vrechek, Jean
Walker, Norman
Wang, Hsiao
Webster, Mark K.

Division of Physical Education, Health, & Athletics
Avendano, Marisa
Bauduin, Lisa
Blair, Deborah
Brown, Shirley
Carmazzi, Paul
Carmichael, David
Clemons, Michael
Dewar Jr., Robert E.
Griffin, David
Jones, Andrew
Kiernan, Timothy
Kunimura, Karen
Maglione, Robert
McKay, Ryan
Nash, Laurie
Oh, Jang-Ha
Pacheco, David
Pollock, Koren
Sullivan, Jerry
Zuercher, Connie

Division of Science and Allied Health
Ackerman, Alexis
Allen, Kathleen
Bennett, Diane
Caldwell, Zoe
Carberry-Goh, Karen
Carlson, Joanne
Carriere, Sue
Cavanaugh, Judith
Chan, Cheryl
Chape, Elizabeth
Cohen, Dale
Collins, James
Copely, Douglas
Dunne, Michael
Greenfield, Joan
Greenwell, Andrea
Harris, Patricia A.
Holt, Julie
Huang, Ling
Hussey, Susan
Iley II, William
Isbell, Maggie
James, Stephen
Johnson, Denise
Johnson, Judy
Lannom, Debra
Lo, Sandra
Lucien, Darreis
Maloyed, Lynda
McDaid, William
Meyer, Virginia
Miller, William
Minter, Carol
Naganuma, Kenneth
Newman, Forrest
Nuss, Linda
Richardson, Michael
Rodenberg, Jennifer
Roffey, Robin
Roper, Susan
Sarte, Jaime
Serafini, Lisa
Sheppard, Laurie
Siu, Jennifer
Standley, Ellen
Stanton, Kathryn J.
Triphon, Joann
Wagner, Glennda
Warrell, Patricia
Wicks, Debra
Wyatt, David
Zenner, Bruce

Division of Counseling and Student Success
Allred, Mary-Susan
Bacod, Maristella
Barfield, Annette
Belair, Diane M.
Clark, Joyce
Cornelius, Victoria
Erlich, Richard
Fabionar, Maria
Fong, Susan
Gomez, Lupe
Gonzalez, Mauricio
Hagerty, David
Hinerman, James
Janssen-Kays, Kristine
Jovanovic, Angelia
LaChica, Juan
Muraki, Keith
Nunnally, Delecia
Parker, Leslie
Phillips, Maxine
Rasul, David
Reese, Rick
Ruedas, Sandra
Scott, Geraldine
Sheppard, Marian
Slobodnik, Wendy
Tracy, Gwyneth
Woo, Jane
Yang, Richard

Reporting Sexual Assault

1.0 Procedure

1.1 It is the objective of the College, in accord with EC67385, that students, faculty, and staff who are victims of sexual assault committed at or upon the grounds of or upon off-campus grounds or facilities maintained by the College shall receive information and referral to treatment. This information shall be provided with sensitivity and in consideration of the personal needs of the victim.

2.0 Notification

2.1 Any student, faculty or staff member who is a victim of sexual assault at a College facility as defined above should notify the College Police Department. With the consent of the victim, the College Police Department will notify the Dean of Counseling and Student Success and the Campus Health Office.

3.0 Legal reporting

3.1 Pursuant to legal requirements, the College Police Department will notify the appropriate local law enforcement agency of the reported sexual assault.

3.2 In accord with the Campus Crime Awareness and Security Act of 1990, the College, on an annual basis, shall notify students and employees of statistics concerning specific types of crime, including sexual assault. This notice shall be made through appropriate publications/mailings.

3.3 In case of violent crimes considered to be a threat to other students and employees, the College shall make timely reports, respecting the confidentiality of the victim, to the College community in a manner that will aid in the prevention of similar occurrences.

4.0 Campus services and resources

4.1 Upon notification of a sexual assault, the Los Rios Police Department (LRPD) will make available to the victim, a description of campus resources and services available to the victim as well as appropriate off-campus services. This listing of resources and services shall be updated each September 1 or more frequently as required.

4.2 The listing of resources and services shall be available through the College Police Department, the Counseling Center, and the Health Office.

4.3 A victim of sexual assault shall be provided with information about the existence of at least the following options: criminal prosecutions, civil prosecutions, the disciplinary process through the college, the availability of mediation, academic assistance alternatives, and mental health counseling.

5.0 Case management

5.1 A victim of sexual assault shall be kept informed by the College President/designee of the status of and disposition of any District/College disciplinary proceedings in connection with the sexual assault.

5.2 The Counseling and Student Success and the Health Office shall, upon request, assist the victim of sexual assault in dealing with academic difficulties that may arise because of the victimization and its impact.

6.0 Confidentiality and requests for information

6.1 The identity of a victim of sexual assault shall remain confidential unless otherwise prescribed by law. Requests for information regarding the sexual assault from the press, concerned students, and parents will be handled by the College Public Information Office in accord with these regulations, the Family Educational Rights and Privacy Act, applicable California Education and Administrative Code sections, and Los Rios Community College District Policy.

7.0 Dissemination of Procedure

7.1 These procedures shall be published in all student, faculty, and staff handbooks and shall be given to any student or employee who is the victim of sexual assault.

CELEBRATING 90 YEARS

Crime Awareness and Campus Security Act

Safety at Sacramento City College is everybody's business. Students, staff, and faculty are partners with the college in creating an atmosphere that is safe and encourages learning. Sacramento City College is a diverse community within a community. During the school year, we have over 20,000 students, 300 full-time faculty, over 400 part-time faculty and a support staff of 225 working together. At the same time, the college is very much a part of the greater Sacramento metropolitan area.

The college, in accordance with its mission statement, provides educational opportunities and support services to the surrounding community leading to transfer, career advancement, basic skills development, and personal enrichment. The college strives to be accessible to the community and welcomes the use of its facilities.

No community, of course, can be totally risk-free. Sacramento City College strongly believes that it has a major role in providing a safe learning environment but is also realistic enough to recognize that students, staff, and faculty must come together in a strong partnership and use common sense precautions to reduce the opportunity for criminal/anti-social activities. Crime happens in our society.

To reduce the possibility that any student may be exposed to potential hazards, Sacramento City College has taken many steps, described herein, to reduce whatever risks there may be.

Safety programs at Sacramento City College are under the Chief of Police. We have a proactive approach to campus safety that is best viewed as education, prevention, and our responsiveness to questionable events. Questions and concerns may be directed to the Los Rios Police Department office at (916) 558-2365.

Education

The key to crime prevention is an awareness gained through education. At Sacramento City College, the College Police department, staff, faculty, and students work together and take responsibility for their own safety and are ready to help others in time of need. This is a very potent force.

The vast majority of incidents on college campuses can be avoided if the college population recognizes that they are potential victims and take basic precautions, such as using the "buddy system" when walking at night, locking car doors, and not leaving valuables unattended. The College Police department is available to meet with groups or individuals and discuss anti-crime tactics or any anti-social activities.

Sacramento City College encourages the reporting of all crimes, even minor crimes, and any suspicious activity. The College Police would rather have a hundred unfounded calls of suspicious activities than miss one call when a crime is occurring. We need to know about crimes that occur. If we are not informed of a crime, we cannot advise and help students and staff. Crimes occurring on campus should be reported immediately to a College Police Officer. When appropriate, the College Police will contact the Sacramento Police Department for assistance and/or help in conducting an investigation. A College Police report will be made; a copy of the report will be made available to the reporting individual provided he/she is the victim of the crime. The Police Department may be contacted by telephone at (916) 558-2365 or by coming to the College Police office located on the corner of East Road at Library Road just east of Sutterville Road.

Additional information is available from College Police personnel. Any serious crime involving potential bodily harm will be reported promptly to all staff and students.

Prevention

The college actively supports crime prevention through a number of programs. These include:

- **Emergency automotive assistance.** While not mechanics, campus police officers are equipped and trained to start cars with dead batteries or unlock non-electric car doors when keys have been left inside the automobile. Proper identification is required for the performance of these services.
- **Lighting.** A major effort has been made to upgrade the lighting in the interior of the campus to reduce areas of darkness. Continuing progress is being made on upgrading the lighting in campus parking lots.
- **Firearms.** Firearms are not permitted on campus except for professional law enforcement officers. Persons with firearms on campus will be subject to arrest and/or disciplinary action. (LRCCD Regulation 2441)
- **Alcohol.** Consumption of or being under the influence of alcohol while on campus is strictly prohibited. Violators are subject to suspension, expulsion, and/or criminal prosecution. (LRCCD Policy 2443)

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- **Emergency telephones.** Outdoor emergency telephones are strategically located throughout the campus. These phones are marked and easily identified by blue lights. When accessed, these emergency telephones automatically connect the caller to the College Police department.
- **Illegal drugs.** The use, sale, or possession on campus of any controlled substance is strictly prohibited. Being under the influence of controlled substances while on campus is similarly prohibited. Violators are subject to suspension, expulsion, and/or criminal prosecution. (LRCCD Policy 2441 and 2443)
- **Sexual harassment.** Sexual harassment in any situation is unacceptable and is in violation of state and federal laws and regulations. Corrective action will be taken where evidence of sexual harassment is found. (LRCCD Policy 2423)
- **Hate violence.** Any act of physical intimidation or physical harassment, physical force or physical violence, or the threat of physical force or physical violence directed against any person or groups of persons or the property of any person or group of persons because of the ethnicity, race, national origin, religion, sex, sexual orientation, disability, or political or religious beliefs of that person or group will not be tolerated. Appropriate action will be taken where evidence of hate violence is found.
- **Sexual assault.** In accord with California Education Code, section 67385, students, faculty, and staff who are victims of sexual assault committed at or upon the grounds of or upon off-campus grounds or facilities maintained by the college shall receive information and referral to treatment. The campus procedure relative to incidents of sexual assault is contained in student/staff handbooks, in class schedules, and in the counseling center and campus health office.
- **Computer Related Crimes.** Tampering or interference with and damage and unauthorized access to lawfully-created computer data and computer systems is a violation of Penal Code 502 (LRCCD Policy 2441.)

Response

Sacramento City College employs P.O.S.T. certified police officers and community service officers who have public safety experience and are sworn peace officers as defined by section 830.32 of the California Penal Code and under California Education Code 72330. They are empowered to conduct investigations and make arrests for violations and infractions they observe. They are responsible for assisting in providing a safe campus environment, detecting and reporting safety/fire hazards, enforcing traffic and parking regulations, and promoting crime prevention. All College police officers have current certification in CPR and first aid.

Los Rios Police Department
Sacramento City College
Clery Act Requirement 2002-2004

	Total On-Campus				Non-Campus Building [1]				Public Property		
Offense Type	**2002**	**2003**	**2004**		**2002**	**2003**	**2004**		**2002**	**2003**	**2004**
Aggravated Assault	0	0	0		0	0	0		0	0	0
Arson	0	0	0		0	0	0		0	0	12
Burglary	14	13	26		0	0	0		0	0	0
Motor Vehicle Theft	10	10	6		0	0	0		0	0	0
Manslaughter-Negligent	0	0	0		0	0	0		0	0	0
Murder & Non-Negligent Manslaughter	0	0	0		0	0	0		0	0	0
Robbery	0	2	2		0	0	0		0	0	0
Sex Offenses-Forcible	0	0	1		0	0	0		0	0	0
Sex Offenses-Non-Forcible	0	0	0		0	0	0		0	0	0
Liquor Law Violations (arrests):	1	0	5		0	0	0		0	0	0
Drug Abuse Violations (arrests):	0	0	4		0	0	0		0	0	0
Weapons Possession (arrests):	0	1	3		0	0	0		0	0	0
Hate Crimes (by Prejudice)	0	0	0		0	0	0		0	0	0
(Race)	0	0	0		0	0	0		0	0	0
(Gender)	0	0	0		0	0	0		0	0	0
(Religion)	0	0	0		0	0	0		0	0	0
(Sexual Orientation)	0	0	0		0	0	0		0	0	0
(Ethnicity)	0	0	0		0	0	0		0	0	0
(Disability)	0	0	0		0	0	0		0	0	0

1. *Public Property is all public property, including thoroughfares, streets, sidewalks, and parking facilities, that is within the campus, or immediately adjacent to and accessible from the campus. The Sacramento Police Department could not provide a statistical breakdown appropriate for Clery Act reporting.*

2. *Includes data from Downtown (*), West Sac (#) & Davis Outreach Centers (^).*

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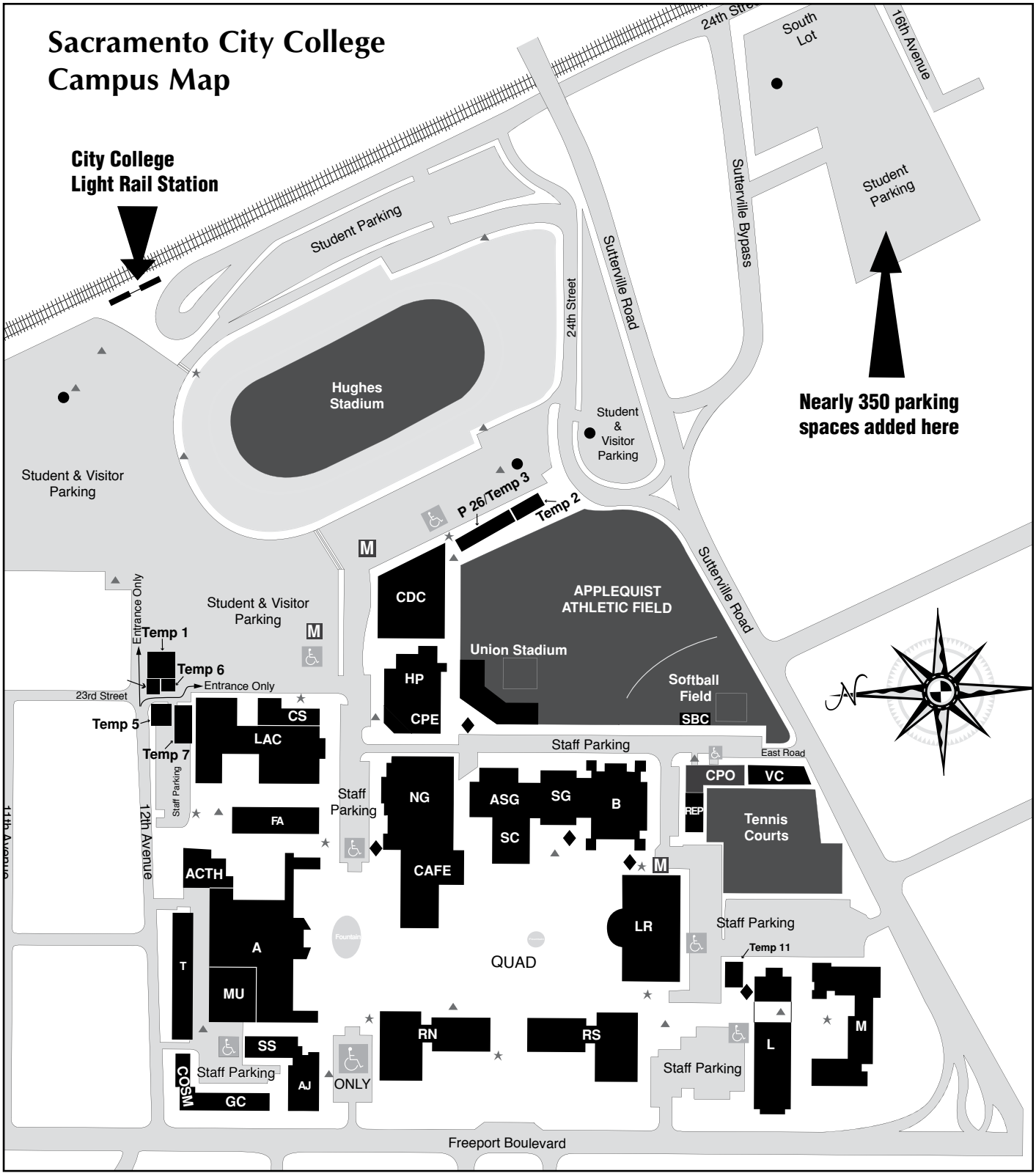
Sacramento City College Campus Map



A	Auditorium	**L**	Lillard Hall	**Temp 2**	Temporary 2
ACTH	Art Court Theatre	**LAC**	Lusk Aeronautical Center	**Temp 3**	Temporary 3
AJ	Administration of Justice	**LR**	Learning Resource Center	**Temp 4**	Temporary 4
ASG	Associated Student Government	**M**	Mohr Hall	**Temp 5**	Temporary 5
B	Business	**MU**	Music	**Temp 6**	Temporary 6
CAFE	City Cafe	**NG**	North Gymnasium	**Temp 7**	Temporary 7
CDC	Child Development Center	**P 26(Temp 3)**	Express	**Temp 11**	Temporary 11
COSM	Cosmetology	**REP**	Reprographics	●	Parking Permit Machines
CPE	Center for Physical Excellence	**RN**	Rodda Hall - North	♦	Bike Lockers
CPO	Campus Police Office	**RS**	Rodda Hall - South	★	Campus Directories
CS	College Store	**SC**	Student Center	▲	Emergency Phones
FA	Fischbacher Arts Building	**SG**	South Gymnasium	♿	Parking for Persons with Disabilities
GC	Graphic Communication	**SS**	Student Services	Ⓜ	Motorcycle Parking
HP	Hoos Swimming Pool	**T**	Technology		
HSOC	Hughes Stadium Office Complex	**Temp 1**	Temporary 1		