SACRAMENTO CITY COLLEGE

Our Mission in Motion

2009 - 2010 CATALOG

Sacramento City College

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

Los Rios Community College District

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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

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 – Cover Concept, Copy Coordination and Preparation
SCC Graphic Impressions - Layout and Cover Design

Academic Calendar

Summer Session 2009

Instruction Begins, First Four, Six, and Eight-week Sessions	June 8, 2009
Instruction Begins, Second Eight-week Session	June 19, 2009
Instruction Begins, Second Six-week Session	June 26, 2009
Final Exams and End of First Four-week Session	July 2, 2009
Holiday-Independence Day	July 3-4, 2009
Instruction Begins, Second Four-week Session	July 10, 2009
Final Exams and End of First Six-week Session	July 17, 2009
Final Exams and End of First Eight-week Session	July 31, 2009
Final Exams and End of Second Four-week Session	July 31, 2009
Final Exams and End of Second Six-week Session	July 31, 2009
Final Exams and End of Second Eight-week Session	August 7, 2009
Grades Due	August 10, 2009

Fall Semester 2009

Instruction Begins	August 22, 2009
Holiday - Labor Day	September 7, 2009
Holiday - Veterans Day	November 13, 2009
Last day to drop full semester classes	November 17, 2009
Thanksgiving Recess	November 26-29, 2009
End of Semester	December 17, 2009
Winter Recess	December 18, 2009-Jan 1, 2010
Grades Due	January 4, 2010
Semester Break	January 2-15, 2010

Spring Semester 2010

Instruction Begins	January 16, 2010
Holiday - King's Birthday	January 18, 2010
Holiday - Lincoln's Birthday	February 12, 2010
Holiday - Washington's Birthday	February 15, 2010
Spring Recess	March 29-April 4, 2010
Last day to drop full semester classes	April 18, 2010
End of Semester/Commencement	May 19, 2010
Grades Due	May 25, 2010

*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	Dr. Kathryn E. Jeffery
Vice Presidents	
Administration	Robert J. Martinelli
Instruction	Dr. Deborah J. Travis
Student Services	Michael C. Poindexter
Administrators	
Administrative Services	Gregory L. Hayman
Advanced Technology	Donnetta Webb
Behavioral and Social Sciences	Jesus (Frank) Malaret
Business	Shirley Short
College and Community Relations	Mary M. Leland
College Store	Randy Clem
Counseling and Student Success	To Be Announced
Davis Center	Donald Palm
Economic and Workforce Development	Richard J. Ida
Enrollment and Student Services	Catherine Fites
Enrollment Management	Dr. Thomas Greene
General Education and Outreach Programs	Julia Jolly
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	Dr. Rhonda Rios Kravitz
Mathematics/Statistics and Engineering	Anne E. Licciardi
Matriculation, Support Services, and Student Development	To Be Announced
Physical Education, Health, and Athletics	Mitchell L. Campbell
Planning, Research, and Institutional Effectiveness	Dr. Marybeth Buechner
Science and Allied Health	Dr. Mary K. Turner
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
Graphic Communication
Industrial Technology
Mechanical-Electrical Technology
Metals Industry Technology
Motorcycle Maintenance
Nondestructive Testing
Photography
Railroad Operations
Surveying (Geomatics)

Behavioral and Social Sciences

Jesus (Frank) Malaret, Dean
Rodda North 226, (916) 558-2401

Administration of Justice
Anthropology
Community Studies
Early Childhood Education
Ethnic Studies
Family and Consumer Science
Fashion and Interior Design
Geography
Gerontology
History
Interdisciplinary Studies
International Studies
Instructional Assisting
Liberal Studies for Elementary Teachers
Nutrition and Food
Political Science
Psychology
Social Sciences
Sociology
Women's Studies

Business

Shirley Short, Dean
Business Building 213, (916) 558-2581

Accounting
Bookkeeping and Office Management
Business
Computer Information Science
Customer Service
Economics
Insurance
Management
Marketing
Office Administration
Real Estate

Counseling and Student Success

To Be Announced
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, Art History
Communication
Fine Arts
Foreign Languages
Humanities
Music
Philosophy
Sign Language Studies
Theatre Arts and Film

Language and Literature

Albert Garcia, Dean
Rodda South 226, (916) 558-2325

English
English as a Second Language
Reading
Journalism

Learning Resources

Dr. Rhonda Rios Kravitz, Dean
Learning Resources Center 236, (916) 558-2253

Distance Education
Human Services
Instructional Development
Instructional Media and Academic Computing
Learning Skills & Tutorial Program
Library
Library and Information Technology
Media Productions and Services
Writing Center

Mathematics/Statistics & Engineering

Anne E. Licciardi, Dean
South Gym 220, (916) 558-2201

Engineering
Mathematics
Statistics

Matriculation, Support Services, and Student Development

To Be Announced
South Gym 226, (916) 558-2194

Community Leadership Development
Student Government

Physical Education, Health and Athletics

Mitchell L. Campbell, Dean
Hughes Stadium, Sections 1 & 3, (916) 558-2425

Adaptive Physical Education
Athletic Training
Athletics
Health Education
Physical Education
Recreation

Science and Allied Health Division

Dr. 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
Physical Therapist Assistant
Physics
Science

President's Message

Congratulations on choosing Sacramento City College as a path in your educational journey! For almost 100 years, we have proudly helped students prepare for a bright future full of endless possibilities, and in these complex economic times, our commitment to your success is as strong as ever. Whether you plan to transfer, earn a degree or certificate, or take classes for personal enrichment, you will find a very broad array of courses and services to get you where want to go.

Nestled in the heart of Sacramento, mere minutes away from the State Capitol, the college serves the entire metropolitan area. With campuses in Downtown, West Sacramento and Davis, our students mirror the diversity of our surrounding communities. We pride ourselves on creating a learning environment that nurtures the beautiful range of individuality in our student body, staff and faculty. Our myriad campus programs seek to inform and inspire students while promoting understanding and unity among all groups. In addition, we have forged meaningful relationships with local businesses and industries, which, over the years, have blossomed and created great opportunities for SCC students. For these reasons and many more, we are confident that you will leave SCC not only with superior academic knowledge, but also with the capacity to navigate an ever-changing local and global community.

Whether you're interested in trigonometry, creative writing, business, art or emerging green technologies, SCC faculty members are among the most knowledgeable in their discipline, and you will receive the best caliber of instruction possible. Research shows that students who attend SCC perform as well as or better than students who start at a four-year college or university. So take advantage of our small class sizes and get to know your professors!

In the following pages, you will find a suite of resources that will help you make the most of your time, here, at SCC. We encourage you to:

Visit the Student Support Services section. This section provides descriptions of all college programs and services. Discover how the Transfer and Counseling Centers can help you reach your academic goals.

Apply for financial aid. See how a Board of Governors Fee Waiver, a Pell Grant, a scholarship, or even a loan could help you pay for college.

Check out SCC's student organizations. This is an excellent way to build networks with other students who share your interests and academic goals.

Learn more about riding the Regional Transit Light Rail directly to the City College Station — it's a simple, thrifty and eco-friendly way to get to the main campus. Your Student Access card is your reduced rate transit pass, and it's good seven days a week during the fall and spring semesters.

Thank you for choosing Sacramento City College, where our vision is to "**create a learning community that celebrates diversity, nurtures personal growth, and inspires academic and economic leadership**." I am confident you will find many services, programs and people to help make this part of your journey enjoyable, enlightening and rewarding.

Most sincerely,

Kathryn E. Jeffery

President

About the College

Core Values

Working Together • Pursuing Excellence • Inspiring Achievement

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. Our commitment to continuous improvement through outcome-guided assessment, planning, and evaluation promotes student learning. Through these efforts, we contribute to the intellectual, cultural, and economic vitality of the community.

Vision

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

College Goals, 2009-10

1. Develop and implement processes to promote engagement and success of first-year students.

2. Implement a systematic enrollment management process that aligns student outreach and recruitment with scheduling of classes, programs, and services based on student interest, demand, time, convenience, and culture.

3. Improve basic skills competencies in reading, writing, and math and improve preparedness for degree applicable courses through developing skills in reading, writing, math, and information competency across the curriculum and throughout the college.

4. Improve processes, services, curriculum, and instructional design to ensure equivalent student outcomes for alternative modalities and locations (i.e., off campus sites, distance education, etc.).

5. Revise or develop new courses, programs and services based on assessment of emerging community needs.

6. Improve staff processes for all classifications including hiring, orientation, mentoring, customer service, training, evaluation, and exit processes, with attention to the selection and retention of staff that reflect the diversity of our students and community.

7. Engage the college community in the process of ongoing institutional evaluation and continuous improvement, in the analysis and review of data, and in ongoing activities related to accreditation.

8. Identify and respond to the needs of the college community that is growing increasingly diverse in terms of demographics and culture.

9. Deliver programs and services that demonstrate a commitment to learner-centered education and training and institutional effectiveness through continuous process improvement.

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 Nursing and Psychiatric Technicians, the Dental Board of California, the Federal Aviation Administration, and the California Board of Cosmetology and Barbering.

College Programs

General Education

These courses 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.

Career-Technical Education

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

Developmental and Basic Skills Education

Courses and services 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 that parallel the first and second year courses of four-year colleges and universities 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

The courses taught at community outreach locations allow students to gain basic language and mathematics skills, develop essential job skills, prepare for continuing education, and complete most or all of their general education and major requirements. Whether you want an associate degree or a certificate, whether you want to transfer for a baccalaureate degree or not, these locations may offer you classes you want at a convenient place and time.

These sites are:

Davis:

1909 Galileo Street, Suite B

Davis, CA 95616

Information: (530) 747-5200

Http://www.scc.losrios.edu/About_SCC/Davis_Center.htm

Downtown:

1209 4th Street

Sacramento, CA 95814

Information: (916) 558-2640

Http://www.scc.losrios.edu/About_SCC/Downtown_Center.htm

West Sacramento:

1275 Halyard Drive, Suite 6175

West Sacramento, CA 95695

Information: (916) 375-5511

Http://www.scc.losrios.edu/About_SCC/West_Sacramento_Center.htm

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 1,950 space parking garage was completed in January, 2007. The Technology building was modernized and completed in Spring 2006 followed by the Cosmetology building completed in Spring 2006, and the North Gymnasium in Fall 2008. The next buildings planned for modernization include the Fine Arts building beginning in Spring 2009 followed by the Performing Arts Center in Summer 2011.

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 that 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.

*** Equity Officer**

Julia Jolly, Associate Vice President, General Education, 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, Robert Jones, 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.

Academic Freedom

A faculty member's ability to make professional judgments related to teaching unaffected by pressures from a political or social climate lies at the heart of academic freedom. The importance of this freedom is highlighted where all members of the academic community are committed to recognizing and celebrating the uniqueness of each of its members.

Academic freedom at Sacramento City College is essential for the fulfillment of the educational mission of the college and for the ability of faculty members to perform their professional duties. In addition, academic freedom ensures faculty members' rights and obligations of professional protection, autonomy, and responsibility.

Faculty members shall be protected from censorship, restraint, or dismissal in their ability to study, investigate, present, interpret, or discuss the relevant facts and ideas within the assigned curriculum and outline. They shall also be protected from extraneous considerations such as a faculty member's gender, gender identity, ethnicity, race, religion, political beliefs or affiliation, sexual orientation, or disability being considered in evaluations of professional performance.

Faculty members have the principal right and responsibility to determine the methods of instruction, the planning and presentation of course materials, and the fair and equitable methods of assessment in their assignment in accordance with the approved curriculum and course outline, the educational mission of the college and with state laws and regulations.

All faculty members shall provide a classroom environment that is conducive to student learning, growth, and development in which students are free from discrimination, prejudice, and harassment and in which students are free to express relevant ideas and opinions. They shall also clearly differentiate for students the expression of that faculty member's personal opinions or convictions from the objective presentation of theory, fact or ideas.

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 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 the Registration/Financial Aid Lab, Business Building 153, Monday through Thursday, 8:30 a.m. to 5:00 p.m. and Friday, 8:30 a.m. to 1:00 p.m. (check the Schedule of Classes for dates this center will not be available). A staff person is onsite to assist students with on-line orientations, applications for admission, financial aid applications, updating supplemental information, obtaining assessments scores, viewing your academic histories and/or schedule, as well as enrolling into classes.

Computers are also available in Rodda North 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, Support Services, and Student Development Division is responsible for outreach and recruitment services targeting area high schools, community agencies, and 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) 558-2331.

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 Success Academy

The Summer Success Academy is a Sacramento City College sponsored high school to college transition program for first-time college students. Students that participate in the academy will attend classes that assist them with learning skills that will help them be successful in college. The program is a six-week summer session with classes scheduled Monday through Wednesday in the morning with Thursday reserved for enhancement and enrichment activities. The Human Career Development (HCD) course that all students enroll in exposes students to college resources, assists students with identifying educational and career goals, provides students with an opportunity to meet new friends, and most importantly, creates an environment for students to explore their strengths, gifts and talents as a college student. Thursday field trips include visits to four-year colleges and universities and leadership and team building activities. For more information please call the Matriculation, Support Services and Student Development Office at (916) 558-2193 or stop by South Gym 226.

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.

Students' assessment results, along with their high school records, educational and employment experiences, current work schedules, and motivational levels, can be used to help plan classes. Sacramento City College counselors can provide interpretations of test results and work with students to prepare Student Educational Plans. 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, Transfer: Making It Happen.

Appointments to meet with college representatives and attend 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.

To help plan for transfer, please make an appointment to meet with an SCC counselor.

Disability Resource Center

The Disability Resource Center (DRC) serves students with documented physical, learning, communication, developmental, psychological and acquired brain injury disabilities, 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 providing students with disabilities opportunities 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

Students who require information or services should go to 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 and Friday, 8:00 a.m. to 4:30 p.m., with evening hours Tuesday through Thursday, 5:00 p.m. - 7:00 p.m. Students requiring appointments for learning disability assessment should go to the Auditorium 2 to make an appointment. The Assistive Technology Lab and exam proctoring center are also located in A2. The Assistive Technology Lab is open Monday through Thursday and 8:00 - 7:00 on Fridays. Exam proctoring must be pre-scheduled and is available Monday through Thursday 7:00 a.m. - 6: 30, Friday 7:00 a.m. - 4:30 p.m. The telephone numbers for A2 are (916) 558-2283 (voice) and 558 2670 (FAX). 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.

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, a 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 website 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 and to learn to appreciate the differences in others. It is an educational experience that helps members of the college community 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

The Career Center is available to assist and support students through the Career Development Process. This process includes Job Search, Experiential Education, Decision Making/Goal Setting, Research, and Self-Exploration. Students can explore new careers, build on their current careers, and get help matching their majors to careers. Available career resources include computer programs, books, journals, newspapers, and career self-assessments. The Career Center also hosts an annual Career Day in the spring, where students can explore career opportunities and internships, as well as network with potential employers. The Career Center staff works with students individually or in groups utilizing the various career resources in the Center. All Career Center services and resources are available to students and the public. Please contact the center if you need accommodations for a disability to utilize our services. For additional information, please contact the Center at (916) 558-2384. The Career Center at Sacramento City College is located inside the Counseling Center in Rodda North 147.

Job Services

Student employment services are coordinated through the Career Center located in the Counseling Center, Rodda North 147. Job Services includes assistance with student jobs on-campus, Federal Work Study positions, and job listings for off-campus employment. Students can receive assistance with résumés, cover letters, interview skills, and job search strategies individually or through workshops. Recruiters are on campus throughout the year to give job/career information.

Job announcements and descriptions are posted on a job board on the first floor of Rodda North, outside the Counseling Center, and are available for viewing in the Career Center. Job listings can also be accessed through the Los Rios Job Connection website service, http://www.CollegeCentral.com/SacCity. This website allows employers to post their jobs and review student résumés. Student and alumni can register for free and search the job database for the position that meets their needs.

For those with disabilities who may need assistance, we work in partnership with the Disability Resource Center and WorkAbility (a joint program between the Department of Rehabilitation and Sacramento City College).

Services are available to all students as well as future students. For general information, call (916) 558-2565 or (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 $20.00 for the first appointment and $9.00 for additional appointments. The fee for cleanings children is $16.00. Sealants, which prevent tooth decay, cost $9.00 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 $12.00 to $22.00. For an appointment, call (916) 558-2303.

International Student Center

SCC highly values the rich cultural diversity which is created by the presence of international students (F-1) on our campus, and we look forward to the opportunity to provide support services. International students are defined as any citizens of a country other than the United States who have or will need "school authorization, under Federal laws, to enroll as non-immigrant students."

All applicants must first apply to SCC following "international student" procedures. Approved students are required to report to the International Student Center within 10 days of arrival to the U.S. or before the first day of instruction. New, transfer in, and continuing re-entry students must bring their most recent original entry documents (I-20s, I-94, passport with American Consulate page) and current copies of all college transcripts translated into English.

Students are advised to:

*Complete the SCC International Admission Packet, which may be downloaded at http://web.scc.losrios.edu/international

*Maintain full-time status and complete a minimum of 12 UNITS or more each semester (Important: Withdrawals or Ws 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 major changes and request new updated SCC SEVIS I-20 Form

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

*Have originals 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 or tutoring needs arise

The International Coordinator-Counselor and staff are available to assist students with review of admission requirements, specialized Orientation, and provides value resources regarding student immigration status, federal regulations www.ice.gov/sevis, and educational responsibilities. Successful students see counselor(s) often for career, personal, educational advising, to complete an "Educational Planner," 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 the required paperwork.

In most cases, all tuition, books and miscellaneous fees are paid by the student and not the VA. However, Chapter 33, which is a new educational benefit for qualified veterans, does include a provision to pay most fees directly to the college. The benefit process may take several months to complete. Benefit recipients should anticipate a delay of at least two months before receiving the first payment. For more information on VA benefits, go to www.gibill.va.gov

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. You may also visit the college website at www.scc.losrios.edu.

Child Development Center

The college provides care and education services for children from infancy through preschool in the Berneice Clayton Child Development Center. The program serves mostly low-income student families with funding provided by the State Department of Education. There are also a limited number of spaces available to staff and faculty families.

The center also serves as a child development teaching laboratory for students majoring in academic and vocational programs related to children. College students do observations and participate as teaching assistants in the classrooms.

The mission of the Child Development Center is to provide a high quality relationship based learning environment that respects the diversity and development of all children, families, and students.

For additional information, call (916) 558-2542.

Library Services

The SCC Library, located in the Learning Resource Center on the second floor, 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 more productive and 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 website at http://www.scc.losrios.edu/~library.

Librarians also help students identify reliable websites 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 and Academic Computing

The Instructional Media Center is located in the Learning Resource Center on the first floor and houses the Library's non-print collections, which include videos, DVDs, and audiotapes. Media materials used by faculty and placed on reserve for student use are available. A computer lab for academic purposes 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 students.

A second computer lab for academic purposes 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 available to all students.

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, 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, Math, 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. The course is 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.

Writing Center

The mission of the Writing Center is to help students to become more effective, confident, and independent writers by providing assistance with writing for all SCC courses. The center offers individual writing tutoring sessions and workshops to help students with all stages of the writing process. Writing areas students can work on with tutors include understanding a writing assignment, getting started, developing a thesis, organizing, revising, understanding grammar, and learning strategies for editing.

Distance Education Program

Courses offered via distance education are designed to fit busy schedules and advance academic goals with a challenging educational experience. Distance Education courses offer learning opportunities outside of the physical classroom by integrating internet and telecommunications technologies into the learning process, bridging the physical and time separation between the instructor and students.

Sacramento City College is committed to giving our DE students the same individual support, academic standards, and experienced faculty found in our classrooms, along with the freedom to choose the learning modality: Online, On-Campus/Online Hybrid, Interactive Television/Web-Stream, and Televised (pre-recorded, including video rental option). Learning outcomes of Distance Education courses are equivalent to those established for traditional on-campus courses.

All courses offered, regardless of learning modality or scheduling option, meet the requirements and standards established by the college, and result in the award of full college credit. All of our DE courses are approved by the Sacramento City College Curriculum Committee to ensure a learning experience and level of academic rigor equivalent to our traditional on-campus courses.

DE courses are offered in both synchronous (real-time) and asynchronous (instructor and students are not necessarily working at the same time) modes, depending on the learning modality and course offering. Distance Education courses are offered in the following learning modalities:

Online Courses

Classes are offered via the Internet, using the Los Rios e-Learning system (Desire2Learn). Some courses require exams to be taken on campus; more information about on-campus orientation and testing requirements for a specific course can be found in the Schedule of Classes. Instructors use a variety of teaching approaches and assignments online, just as they do in traditional on-campus classes. Online coursework is completed using a web-based learning management system that allows students to access course lectures and materials, post assignments, and interact with the instructor and other students. Access to coursework is limited to enrolled students with a valid student ID and student password. Students are provided access to a 24x7 (24 hour a day, 7 day per week) help desk for technical issues with the online learning management system.

To ensure success in online courses, we recommend students first take our HCD 320 "Skills for Online Student Success" course.

On-Campus/Online Hybrid

Hybrid courses combine on-campus meetings with online course activities. On-Campus/Online Hybrid courses are great for students who are not sure they are ready for a fully online course, or who prefer to mix online with on-campus meetings. Time spent in on-campus classroom sessions is reduced (amount varies by course) and online coursework is assigned, such as lectures, research, discussion, and other assessments. The online portion of the course is completed using a web-based learning management system that allows students to access course lectures and materials, post assignments, and interact with the instructor and other students. Access to coursework is limited to enrolled students with a valid student ID and student password. Students are provided access to a 24x7 (24 hour a day, 7 day per week) help desk for technical issues with the online learning management system.

Interactive Television (ITV) / Web-Stream

Classes are broadcast live from the Sacramento City College ITV classroom. This option allows students to attend the class on campus, watch the class from home through cable television, or view the course online via streaming video. Enrolled students can participate from off campus by calling the ITV classroom and interacting directly with the instructor and other students. Orientation and exam sessions may be held on campus (varies by course). Following the live course broadcasts, ITV courses are archived to the Web to enable students to review the recorded class sessions. Students may also review ITV courses by DVD for free at the Instructional Media counter in the Learning Resource Center. Instructors may require students enrolled in ITV courses to participate in supplemental online activities using the Los Rios e-Learning (Desire2Learn) system.

Televised / Video Rental

Pre-recorded educational programs are combined with a limited number of on-campus meetings. Students are provided with access to a series of instructional video programs, with specific titles required to be viewed on a weekly basis. These programs are broadcast over local cable television, may be viewed in the Learning Resource Center, and are also available for rental on DVD. Televised / Video Rental courses require attendance at a limited number of on-campus meetings throughout the semester for orientation, concept reviews, and testing purposes. Please see the Schedule of Classes for specific information regarding course meetings. Students enrolled in Televised / Video Rental courses may also be required to participate in supplemental online activities using the Los Rios e-Learning (Desire2Learn) system.

Instructor/Student Contact

In DE courses, ensuring regular effective instructor/student contact guarantees that the student receives the benefit of the instructor's presence in the learning environment both as a provider of instructional information and as a facilitator of student learning. Faculty teaching Distance Education courses at Sacramento City College maintain regular effective contact with students using a combination of these methods:

- Individual email from instructor
- Email listserv or group distribution lists
- Threaded discussion boards
- Blog or FAQ postings
- Instant messaging
- Online chatroom
- Telephone call to/from instructor
- Videoconferencing
- Onsite orientation sessions
- Onsite group meetings
- Onsite tests or assessments
- Onsite review sessions
- Other (as approved by the SCC Curriculum Committee)

Student Readiness

Distance Education courses can be challenging. There are many factors prospective students should consider before enrolling in a DE course, such as familiarity and level of comfort using technology, access to technology resources, ability to work independently, and level of self-motivation. If you are considering enrolling in a web-based course, you are advised to take the self-assessment we have provided on our website at http://web.scc.losrios.edu/de/for_me to help decide if DE is right for you. Students with questions are encouraged to contact their academic counselor for assistance determining readiness for DE courses.

Technology Requirements

To use the Los Rios e-Learning (Desire2Learn) system:

- Operating Systems Windows 98, 98SE, ME, 2000, 2003, XP or Vista
- Mac OS X
- Web Browsers
- Internet Explorer 6.0 or higher
- Firefox 2.0 or higher
- Safari 1.3 or higher
- Other requirements:
- JavaScript must be enabled
- Cookies must be enabled
- Minimum screen resolution: 800 x 600 (1024 x 768 recommended)
- Minimum Internet connection speed: 56K modem (DSL, Cable or LAN recommended)

To view ITV and Televised courses over cable or broadband television, a subscription to a local provider is required. Please see the DE website or Schedule of Classes for specific channels and areas served.

To view ITV / Web-Stream courses online, a computer with a broadband Internet connection and an installed media player are required. Please see the DE website for more specific technical information.

For complete information on the Distance Education Program, visit the DE website at http://web.scc.losrios.edu/de or contact the Distance Education Office at (916) 558-2146.

Computer Labs

SCC provides students access to two computer labs for academic purposes. A computer lab with PC computers is available in the Instructional Media Center (Learning Resource Center) and provides Internet access as well as basic personal productivity software (word processing, spreadsheet, desktop publishing, etc.). Instructional assistance is available to all students. A second computer lab is located in B153 (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 in this lab.

Illegal Distribution of Copyrighted Materials

Sacramento City College students are prohibited from using the Los Rios Community College District (LRCCD) information network to illegally download or share music, video and all other copyrighted intellectual property. The Colleges of the LRCCD, including this one, support the Higher Education Opportunity Act and Digital Millennium Copyright Act, including efforts to eliminate the illegal distribution of copyrighted material. Under the law, college administrators may be obligated to provide copyright holders with information about users of the LRCCD information network who have violated the law.

Be aware that illegal forms of downloading and file sharing as well as the unauthorized distribution of copyrighted materials are violations of the law and may subject you to academic sanctions from the college as well as criminal and civil penalties, including a lawsuit against you by the Recording Industry Association of America (RIAA). Learn more at www.campusdownloading.com. In addition to being illegal, file sharing drains the LRCCD network's bandwidth, which slows computer connections for students and employees who are using the network for legitimate academic purposes and ultimately costs the college money. LRCCD and its colleges have developed policies and consequences to ensure that students properly use the information LRCCD network and respect music and other forms of intellectual property as well as conduct responsible use of the Internet. Review these policies at http://www.losrios.edu/legal/Policies/P-8000/P-8000.htm and especially http://www.losrios.edu/legal/Policies/P-8000/P-8861.htm. There are plenty of easy, affordable ways to get music online legally. To protect their intellectual property, companies have licensed hundreds of digital partners that offer a range of legal downloading options, including download and subscription services, legitimate peer-to-peer services, video-on-demand, podcasts, and CD kiosks. For a list of sources that offer legal downloading sites, access www.riaa.com.

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. This is 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 and 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 instruction and credit courses. The Library also offers a Library and Information Technology certificate program that prepares students to work in libraries 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 Panther Parkway and is accessible on a 24-hour basis, (916) 558-2221. 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 that 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. Hours of operation for the parking garage are Monday through Friday, 6:00 a.m. to 11:30 p.m. and Saturday and Sunday from 7:00 a.m. to 8:00 p.m.

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 placed on the inside of the front windshield, passenger side, lower corner, or 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, FLC) are not accepted at SCC. Semester permits from those campuses are accepted. Either a semester permit or an SCC daily permit obtained from a surface lot is required in the parking garage. Daily permits are not available inside the garage.

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.

Liability

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

Bicycle Lockers and Racks

Approximately 500 rack spaces, including 35 bicycle lockers, are available on campus. Bicycle lockers may be rented at the Business Office. Caltrans Bicycle route maps are available at the transportation information display (Rodda North). All students are required to walk, not ride, their bicycles in the quad area.

Motorcycles

Motorcycle parking spaces are available in most parking lots in designated spaces. Parking in these spaces requires a motorcycle permit obtained through the 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 915 I Street, room 1214, Sacramento, CA.

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

Financial Aid

See http://www.scc.losrios.edu/ financial-aid

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 qualify as an eligible program to receive financial aid. Contact the Financial Aid Office for more information.

Students apply for financial aid by completing the Free Application for Federal Student Aid (FAFSA). Applications are available January 1st. The priority deadline of March 2nd functions as the deadline to submit the Cal-Grant Application as well as the date we use to prioritize processing financial aid application for the upcoming year. FAFSA applications are accepted throughout the academic year. All awards are subject to the availability of federal and state funds. Some funds run out before the end of the academic year. Students who apply by the March 2nd deadline are guaranteed funding if they are eligible.

Board of Governors Enrollment Fee Waiver

California community college enrollment fees are determined by the State Legislature and are subject to change. Each year more than half of our students qualify for a Board of Governors Enrollment Fee Waiver (BOGFW). The BOGFW pays enrollment fees for summer, fall and spring semesters. Only one application is required for all Los Rios Colleges. Applicants must be California Residents to quality. For your convenience, applications can be completed online at www.scc.losrios.edu/financial-aid. Personal assistance is available in the Registration/Financial Aid Lab (B153), Monday-Thursday, 9:00 a.m.-5:00 p.m. and on Friday, 9:00 a.m.-1:00 p.m.

Federal Pell Grant

The Pell Grant is a need based grant program sponsored by the Federal government. Information may be obtained in the Financial Aid Office. The priority application deadline is March 2, 2009 for the 2009-10 school year.

Cal-Grants

The California Student Aid Commission offers Cal Grants each year. The GPA Verification Form, required as part of the Cal-Grant application process, is available online at www.csac.ca.gov. The FAFSA and completed GPA Verification Form must be postmarked by March 2, 2009 for the 2009-10 school year. For California Community College students there is a second Competitive Grant filing deadline of September 2nd. For more information go to www.csac.ca.gov.

California Chafee Grant

The California Chafee Grant Program gives money to foster youth and former foster youth to use for career and technical training or college courses. For more information visit www.chafee.csac.ca.gov

Federal Work Study Program (FWS)

Employment is offered on and off campus to qualified financial aid applicants with the purpose of giving 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. The priority application deadline is March 2, 2009 for the 2009-10 school year.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is for undergraduate students with exceptional financial need. Priority is given to students with Pell eligibility. Eligibility is determined by completing the FAFSA process. The priority application deadline is March 2, 2009 for the 2009-10 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 Workshop.

Satisfactory Progress Policy

To be eligible to receive federal and state student financial aid a student must maintain a Financial Aid Satisfactory Academic Progress (SAP) toward an eligible degree, certificate, or transfer program.

A student's SAP is measured by standards that include a minimum cumulative grade point average (GPA), a progress percentage calculation that determined the cumulative successful completion of units attempted, and a maximum time frame in which a student is expected to finish their program. For more information go to the financial aid website at www.scc.losrios.edu/financial-aid.

Inquiries can be made at the Financial Aid Office, Rodda North 167; 916-558-2501.

Ability To Benefit

One of the requirements for receiving federal student aid, is that a student must have earned a high school diploma, GED, or equivalent. A student who does not meet this requirement and who is 18 years of age must pass the Ability to Benefit (ATB) test. The Ability to Benefit Test is administered by the SCC Assessment Center. Students may also satisfy this requirement by successfully completing six units of unfunded degree applicable courses.

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 90 units, whichever occurs first. (All degrees, certificates and any units accepted by Admissions and Records will be 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 2009-2010 academic year:

Room and Board:	Lives at home	$10,734
	Lives away from home	$17,366
Personal Expenses:	All Students	$3096
Transportation:	All Students	$1170
Books and Supplies:	All students	$1638
Tuition and Fees (average):	All Students	$590
Total:	Lives at home	$10,734
	Lives away from home	$17,366

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 parents or guardians 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 (EOPS)

EOPS 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.

EOPS provides support services: EOPS orientation, counseling, priority registration, financial aid processing, monitoring academic progress, tutors, book assistance, UC and CSU application fee waivers, workshops, and award ceremonies.

Within the EOPS area is the Cooperative Agencies Resources for Education (CARE) Program. It is designed to assist EOPS students who are single parent heads of household that have at least one child 13 years of age or younger. These parents must be receiving Temporary Assistance for Needy Families (TANF) and pursuing an educational program that leads to a certificate, degree, or transfer objective.

There is one application period in the spring for entrance in the fall semester. Please call the office for the specific application dates. For further information, please go to the EOPS Office located in Rodda North, Room 155, call (916) 558-2403, or contact us at scceopsinfo@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) may be eligible for services.

Students 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 a county Welfare-to-Work Agreement must speak to their county worker prior to enrollment. County workers can provide 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 online in January of each year. To qualify for most 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. Some scholarships require additional units, and many scholarships have criteria set by the individual donor. Students are advised to check the SCC website to search for those scholarships for which they are most qualified.

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. The Student Leadership and Development Office 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. Students need to register to vote if they have moved residences, changed names or party affiliations, or are voting for the first time.

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:

A Creative Mind

African Scholars Alliance

American Medical Student Association

Animal Behavior & Conservation Alliance

Anime Appreciation Club

Bayanihan Filipino Club

Belly Dance Club

Business Club

DiverCity Records

Electronic Student Association

Fashion Club

Gardeners Club

Graphic Communications

Honors Service Club

Hmong Opportunity Program for Education

Juggling Club

Peace and Justice Coalition

Le Club Francais

M.E.Ch.A.

Pagan Club

Polynesian Connection Club

Psychology Club

Queer Straight Alliance

Sac City International Life

Sac City Outdoors Club

SCC Dancers of the Pacific

SCC Competition Hip-Hop

SCC Steppers

Science Math and Engineering Club

Society of Hispanic Professional Engineers

Sociology Club

Women's Alliance

Yoga and 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
- Staff Equity and Diversity
- Student Equity

Appointments of students to these committees are 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 students 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 students, 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.

Admissions and Registration

Eligibility for Admission

Scholastic: Admission to the college, as prescribed by law, is open to: (1) any high school graduate; 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. Students who successfully complete the "Certificate of Proficiency" granted by the state Board of Education will be admitted to Sacramento City College on the same basis as regularly graduated high school students.

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 students 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 $190 per unit plus enrollment fee of $20 per unit for a total of $210 per unit.
3. In addition, students who are both citizens and residents of a foreign country are subject to a tuition fee of $208 per unit plus enrollment of $20, for a total of $228 per unit.

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.

Registration 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.

I. Applicants for enrollment should submit the following documents to Admissions and Records Office by July 16, for the Fall semester of 2009 and by December 17 for the Spring semester of 2010:
   A. Application: An SCC Application for admission 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 in the Registration/Financial Aid Lab in the Business Building, B153, 9:00 a.m. - 5:00 p.m., Monday through Thursday and 9:00 a.m. - 1:00 p.m. on 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: Students take the assessment test. Phone (916) 558-2540 or drop by the Assessment Center 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, students take the 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.

   D. Counseling: Students meet with a counselor to create a one semester educational plan after Orientation. Counselors provide information about certificates, degrees, and transfer requirements. Online orientation participants will also need to meet 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. Students register for classes online at www.scc.losrios.edu. Students must observe the appropriate priority registration dates and times.

      California Resident Fees: $20.00 per unit.*

      Out-of-State Non-Resident Fees: $210.00 per unit ($20.00 enrollment fee plus $190.00 non-resident fee per unit)

      International Student Fees: $228.00 per unit ($20.00 enrollment fee plus $208 non-resident fee per unit.

*Subject to change by the State Legislature

Payment of enrollment fees is due within ten days of registering for classes. Students 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 are subject to change. Each year more than half of our students qualify for a Board of Governors Enrollment Fee Waiver (BOGFW). The BOGFW pays enrollment fees for summer, fall and spring semesters. Only one application is required for all Los Rios Colleges. Applicants must be California Residents to quality. For convenience, applications can be completed online at www.scc.losrios.edu/financial-aid. Assistance with the application is available in the Registration/Financial Aid Lab (B153), 9:00 a.m. - 5:00 p.m., Monday through Thursday and 9:00 a.m. - 1:00 p.m. on Friday.

II. Readmission—Former students of Sacramento City College returning after an absence of one or more semesters must submit applications for admission. Official transcripts from any institution attended, since date of last enrollment at Sacramento City College, should be submitted to the Admissions and 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 make a counseling appointment after their transcripts have been received to review their progress towards a degree or objective. Students should submit all transcripts from other colleges (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 2009 and December 17 for Spring 2010 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 at another institution.

It is the responsibility of the student to request transcripts be sent to the Admissions/Records Office at Sacramento City College for any credits 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. Students 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 assist new, continuing and transfer students with orientation and academic counseling based on major goals and ESL/English and math assessment course recommendations. The Center staff can answer specific F/M student visa questions to SCC student or applicants Students may find further information about F-1 status at the Information for Students and Exchange Visitors website: http://www.ice.gov/sevis/students. 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.

Advanced Education

Advanced Education Students—Advanced Education is intended to provide high school grade students who have completed the 10th grade or will be 16 years of age by the first day of instruction with educational enrichment opportunities at the community college. To ensure success for advanced education students, 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 who have completed the 10th grade or will be 16 years of age by the first day of instruction, have a GPA of 2.7 or higher or demonstrate ability in the subject area. Exceptions to the 2.7 GPA are courses in 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 in English or math
- 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
- Documentation of age

How does a student register for class:

- Advanced Education students must register in person at the Admissions counter or at an outreach center
- Have a completed Advanced Education application

If a student enrolls in 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 students receive 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, students can submit petitions for eligibility with the Dean of Counseling at SCC.

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 to avoid incurring grades that would negatively affect their academic standing.

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).

Course Repetition—This information is extracted from Los Rios Board Regulations, R-7252, Section 4.0.

Course Repetition—Generally, each course may be taken only once. Except for the following specific conditions, repetition of courses will not be allowed.

- A student may repeat, twice, a course that was taken in which a substandard grade was received. A substandard grade is defined as "D," "F," or "NP." A student may not repeat a course in which he/she earned an "incomplete." The greae and credits earned in the final enrollment shall be used exclusively in determining the grade points earned for that particular course.
- The college finds, upon a student's petition, that the student's previous grade is, at least in part, the result of extenuating circumstances. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the Student. A student may repeat a course under these guidelines a maximum of two times. For courses repeated under these circumstances, the previous grade and credit is disregarded in computer the GPA each time the course is repeated.
- Where the College finds, upon student petition, that a student received a satisfactory grade and there is a significant laps of time since the grade was obtained, the College may permit a student to repeat a course if the College finds that another institution of higher education to which the student seeks to transfer has established a recency requirement, or the course at the College has an established recency prerequisite. Grades awarded for courses repeated under these circumstances shall not be counted in calculating the student's grade point average.
- Courses designated as "repeatable" are identified in the college catalog and are designed to enhance a student's skills or performance through supervised repetition and practice and/or active participatory experience in individual or group assignments is the basic means by which learning objectives are obtained.
- Students may repeat courses needed to meet a legally mandated training requirement as a condition of continued paid or volunteer employment.
- Student petitions must be submitted to the Admissions and Records Office and will be reviewed by the Dean of Enrollment and Student Services. All petitions to repeat a course must be approved and on file in the Admissions and Records Office prior to enrolling for the course.

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 Load—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 of Enrollment and Student Services. 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 Veterans Administration - 12 units.
b. Veterans 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.

Fees

Enrollment Fee. All students must pay an enrollment fee of $20 per each unit per semester. These fees are subject to change by the State Legislature. Payment of enrollment fees is due within ten days of registering for classes. Students 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 BOGFW 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 in addition to enrollment fees. The tuition is set by the State of California each year. For the 2009-2010 school year tuition is $190 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. The first two transcripts are given free and additional copies may be obtained for two dollars ($2) each. Requests for official transcripts can be initiated at the Admissions and Records Office, by fax, or using the online transcript request form (only when sending to another academic institution). Please go to www.scc.losrios.edu for more information. Students requiring a transcript within 24 hours will be assessed a $10 service charge per transcript ordered. Unofficial transcripts can be viewed and printed by accessing www.scc.losrios.edu.

Fee refunds. Enrollment, nonresident tuition, and UTP fees (minimum $5 fee if a sticker as been picked up)are refundable only if a student withdraws during the first 10 days of the semester for full-semester classes, and through Friday of the first week of instruction for less than full-semester classes. There is no refund after these deadlines.

The student may file for the enrollment and/or nonresident tuition fee refund(online) up to the last day of instruction in any semester or summer session, provided the student has withdrawn from classes on or before the deadline. For specific dates and deadlines refer to the class schedule or web site. To qualify for a refund, the student must officially drop the class(es) online, at eServices, or at Admissions and Records within the time lines published in the class schedule. Students who have paid their fees and later qualify for the BOG fee waiver may apply for a refund. These refund requests must be filed online by the last day of instruction of the semester in which the student is requesting a refund. Refund eligibility will be determined by the date the class(es) were dropped and the date the refund application is filed with the college Business Services Office.

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
Check *Schedule of Classes for specific dates.*	
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.*

Parking Refunds. The portion of the parking permit containing the decal number must be attached to the refund application. Requests for parking refunds may not be submitted online. The parking fee is 100% refundable up to the tenth day of the semester (fifth day of summer term). There are no refunds after that day. The date the refund application is received in the Business Services Office determines refund eligibility.

Transcripts. Upon written request, two official transcripts of record will be mailed without charge. Additional copies are $2 each, payable in advance. Unofficial copies are accessible through eServices for no charge. A minimum of five to seven working days should be allowed for processing transcript requests. Express service (24 hour maximum) is available at a cost of $10.00 per transcript. Test scores and transcripts from other colleges are not a part of the Sacramento City College transcript and must be requested from the appropriate testing company or college.

Verification Of Enrollment. Upon written request, verifications of enrollment are provided free of charge, by the Office of Admissions and Records. Please allow three to five working days for processing. For round the clock service, Sacramento City College has authorized the National Student Clearinghouse to act as its agent for verification of student enrollment status. You can obtain an official Enrollment Verification Certificate at any time through the Clearinghouse website at www.studentclearinghouse.org. There is a $2.50 cost for this express service.

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.

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. Students must have assessment results in order 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 registration in Human Career Development courses.

4. **Counseling and Educational Plan Development**

   All matriculation students must meet with a counselor to develop an educational plan. This plan will recommend courses for the first semester only. Counselors provide advising related to course selection. Additional assistance is available to students who are undecided about their goal. Students should return during their first semester to develop a full educational plan.

5. **Register for Classes - Using SCC eServices**

   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. BOGFW recipients pay a reduced UTP fee.

   California resident fees: $20.00 enrollment fee per unit per semester. Enrollment fees may increase for 2009-10.

   Out-of-State Non-Resident Fees: $210.00 per unit ($20.00 enrollment fee plus $190.00 non-resident fee per unit)

   International Student Fees: $228.00 per unit ($20.00 enrollment fee plus $190 non-resident fee per unit plus $18 capital outlay fee per unit)

   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**
   Students can be exempt from participating in Orientation, Assessment, Counseling, or Advisement if they 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 students have been declared exempt, they 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

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 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, 2009 semester - June 11, 2009

Fall, 2009 semester - August 21, 2009

Spring, 2010 semester - January 15, 2010

In addition to enrollment fees, all students classified as non-residents are required to pay a non-resident tuition fee of $190 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 during the semester for which the fee was paid.

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.

Advanced Placement Credits

An acceptable AP score for IGETC equates to either 3 semester or 4 quarter units for certification purposes. Each AP exam may be applied to one IGETC area as satisfying one course requirement, with the exception of Language other Than English. **Students who have earned credit from an AP exam should to take a comparable college course because transfer credit will not be granted for both.**

Students earning scores of 3, 4, or 5 in the physical and biological science AP examinations earn credit toward IGETC Area 5 and meet the IGETC laboratory activity requirement.

There is no equivalent AP exam for Area 1B – Critical Thinking/Composition requirement.

AP exams in Biology, Chemistry or Physics B allow California Community College campuses to apply 4 semester or 5 quarter units to IGETC certification. For Environmental Science, Physics C: Mechanics and Physics C: Electricity/Magnetism, 3 semester or 4 quarter units are applied for IGETC certification. **Therefore students who complete these exams will be required to complete at least 4 semester or 5 quarter units to satisfy the minimum required units for Area 5.**

SUBJECT	SCC Courses Only			AP Scores of 3, 4, or 5			
	SCORE	Course	Units	SCC GE Area	CSU GE Area	CSU Units	IGETC Area
Art History	3, 4, 5	ARTH 302, 304, 306, 308, 310	6 max.	I	C1 or C2	3	3A or 3B
Art Studio: Drawing	3, 4, 5	ART 300	3	I	N/A	0	N/A
Art Studio: 2D Design	3, 4, 5	ART 320	3	I	N/A	0	N/A
Art Studio: 3D Design	3, 4, 5	ART 370	3	N/A	N/A	0	N/A
Biology	3 4, 5	BIOL 402 BIOL 412 or 422	5 5	IV	B2 and B3	4	5B with lab
Calculus AB	3, 4, 5	MATH 400	5	II (b)	B4	3	2A
Calculus BC	3, 4, 5	MATH 400 & 401	10	II (b)	B4	3	2A
Chemistry	3 4, 5	CHEM 305 CHEM 400	5 5	IV	B1 and B3	4	5A with lab
Chinese Language & Culture	3, 4, 5	N/A		I	C2	3	3B and 6A
Computer Science A	3, 4, 5	CISP 360	4	II (b)	N/A	0	N/A
Computer Science AB	3, 4, 5	CISP 400	4	II (b)	N/A	0	N/A
Economics: Macroeconomics	3, 4, 5	ECON 302	3	V (b)	D2	3	4B
Economics: Microeconomics	3, 4, 5	ECON 304	3	V (b)	D2	3	4B
English Language Composition	3, 4, 5	ENGWR 300	3	II (a)	A2	3	1A
English Literature & Composition	3, 4, 5	ENGWR 300 & 301	6	II (a)	A2 and C2	3	1A or 3B
Environmental Science	3, 4, 5	BIOL 350	3	IV	B1and B3	4	5A with lab
French Language	3, 4, 5	FREN 401 & 402	8	I	C2	3	3B and 6A

SUBJECT	SCC Courses Only			AP Scores of 3, 4, or 5			
	SCORE	Course	Units	SCC GE Area	CSU GE Area	Units	IGETC Area
German Language	3, 4, 5	GERM 401 & 402	8	I	C2	3	3B and 6A
Government & Politics: Comparative	3, 4, 5	N/A		N/A	D8	3	4H
Government & Politics: United States	3, 4, 5	POLS 301	3	V (a)	D8 and US-2	3	4H
History: European	3, 4, 5	HIST 300	3	I or V (b)	C2 or D6	3	3B or 4F
History: United States	3, 4, 5	HIST 310 & 311	6	V (a)	C2 or D6 and US-1	3	3B or 4F
History: World	3, 4, 5	HIST 307 & 308	6	V (b)	C2 or D6	3	3B or 4F
Human Geography	3, 4, 5	GEOG 310	3	V (b)	D5	3	4E
Italian Language and Culture	3, 4, 5	N/A		I	C2	3	3B and 6A
Japanese Language & Culture	3, 4, 5	N/A		I	C2	3	3B and 6A
Latin: Vergil	3, 4, 5	N/A		N/A	C2	3	3B and 6A
Music Theory	3, 4, 5	MUFHL 400 & 401	6	I	N/A	0	N/A
Physics B	3, 4, 5	PHYS 310	3	IV	B1 and B3	4	5A with lab
Physics C: Electricity & Magnetism	3, 4, 5	PHYS 420	5	IV	B1 and B3	4	5A with lab
Physics C: Mechanics	3, 4, 5	PHYS 410	5	IV	B1 and B3	4	5A with lab
Psychology	3, 4, 5	PSYC 300	3	V (b)	D9	3	4I
Spanish Language	3, 4, 5	SPAN 401 & 402	8	I	C2	3	3B and 6A
Spanish Literature	3, 4, 5	N/A		N/A	C2	3	3B and 6A
Statistics	3, 4, 5	STAT 300	4	II (b)	B4	3	2A

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 transcript 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 and Records 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.

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.

Pass/No Pass Grading

(formerly known as Credit—No Credit Grading)

A student may elect one course per semester to be graded on a Pass or No Pass grading basis. A request form must be filed with the Admissions and Records Office for this option prior to the end of the fifth week for a regular semester course or by the 30% meeting in a short-term class (see www.scc.losrios.edu for an online 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 "P", with units earned. The equivalent of D or F will be recorded as "NP", with no units earned. Units attempted for Pass/No Pass grades are not computed in the grade point average, but are used for determining progress probation and progress dismissal and minimum progress for students receiving financial aid.

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

*Courses taken prior to December 31, 2008 will be noted on the student record as CR/NC.† Courses taken January 1, 2009 and in the future will be noted as P/NP, per Title V section 55022.

Credit By Examination/Course Challenge

Under special circumstances and with the concurrence of the department, students regularly enrolled and in good standing 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 "P" grade. The "P" 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 Website (http://scc.losrios.edu Quick Link menu, Admissions and Enrollment Forms);
3) Obtain signatures of the instructor and division dean;
4) Make payment for the course units at the Business Office (unless you have a Fee Waiver);
5) Contact the instructor for a time and location to take the exam.

When you have completed the exam, the instructor will submit the result to the Office of Admissions and Records. Either a Pass or No Pass 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.

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

College work is measured in terms of the semester "unit." In lecture courses, one hour in the classroom and two hours of study preparation per week constitute a unit of work. In the laboratory, three hours in the classroom per week with no outside study constitute one unit of work. Student can find the number of units of credit with each course description.

Students will notice that some courses have "variable" units (1-2, .5-4, or 1-3 units). Some courses may be taken more than once (two to four times each) provided there is no duplication of topics. For example, MUIVI 315 is offered for 1-2 units and can be taken twice.

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
P Pass (C or better) - Not computed in GPA (formerly CR)
NP No Pass (less than C) - Not computed in GPA, but affects progress, probation, and dismissal (formerly NC)
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
MW Military Withdrawal

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 eServices.

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.

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 Policy

A student may have previous substandard work earned within the District alleviated if it is not reflective of a student's current demonstrated ability according to the following regulations and procedures:

1. For purposes of academic renewal, substandard work is defined as a D or F.
   The maximum amount of coursework that may be alleviated is thirty (30) units.
3. A minimum of 12 consecutive months shall have elapsed since the end of the semester or summer session in which the work to be alleviated was recorded; and a minimum of twelve (12) semester units (or its equivalent) with a grade of "C" or "Credit" or better shall have been attained. The coursework must have been completed at a regionally accredited college.
4. All work on the permanent record must remain legible, insuring a true and complete academic history.
5. College procedures related to academic renewal will be published in the College Catalog and will be implemented by the Office of Admissions and Records.
6. Records of academic renewal action shall be kept by the Admissions and Records Office at each college.

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 Pass (P). 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.

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.

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 units 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 "NP" 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 "NP" drops below fifty (50) percent.

Computations

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

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

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 "NP" 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 of Enrollment and Student Services, 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.

Exceptions

Students may petition to the Dean of Enrollment and Student Services, for readmission following dismissal if their dismissal arises from one of the following:

1. Military service obligations.
2. Unusual personal problems that 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 eligibility requirements for the California Community College Athletic Association (CCCAA) and Big 8 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 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, Enrollment and Student Services.
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 short-term summer sessions.

No Shows

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

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 and dates.

"Ws" are used for determining progress probation and progress dismissal.

To officially drop a class without penalty, a student must drop online through 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.

Enrollment Limitation

Enrollment in some college programs and courses may be limited due to health and safety considerations, requirements of a contracting agency, performance auditions or tryouts, and acceptance into a program.

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 names, addresses and phone numbers 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 Enrollment and Student Services 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 integrity as specified in LRCCD Board Policy and Regulations P/R 2441. Certain activities are not considered appropriate to a college campus, and are prohibited by the Board of Trustees. These include participation in gambling and raffles 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 or illegal substances on college campuses is prohibited without qualification. There is a zero tolerance for violence. 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.

Time line: 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, RN277.

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 76224(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 Enrollment and 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

Application for Graduation

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

The deadline date to petition for graduation can be found in the printed copy of the class schedule under Important Dates.

Students may graduate at the end of the fall semester, spring semester, or summer session. However, the Commencement Ceremony is held only once a year in May. All students receiving degrees are encouraged to attend to celebrate their academic achievement.

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 that 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 that 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.

Associate in Arts (A.A.)
Associate in Science (A.S.)
GRADUATION REQUIREMENTS 2009-10

All students MUST satisfy the following four requirements (1, 2, 3, 4) in order to earn the Associate in Arts/Science degree:

1. Complete a minimum of **60 degree applicable** units with a grade point average of 2.0 ("C" average). A minimum of 12 units must be completed at Sacramento City College.

2. Complete each required course 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 degree applicable units total.

3. Complete all general education requirements, Areas I, II (a and b), III (a and b), IV, V (a and b), and VI.

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 listed in more than one area but **can be used to satisfy ONLY ONE AREA** (except Area IV).

AREAS		MIN. UNITS	COM-PLETED	IN PRO-GRESS	NEED
I. (was Area C) – Humanities (3 units minimum)					
ANTH	330	**3**			
ART	300, 320, 390, 430, 440				
ARTH	300, 302, 304, 306, 307, 308, 310, 312, 313, 314, 318, 320, 324, 325, 328, 330, 332, 334, 484, 486, 487				
COMM	305				
ENGCW	400, 410, 420, 431				
ENGLT	303, 304, 310, 311, 320, 321, 327, 331, 332, 334, 335, 345, 346, 360, 365, 370, 380, 392, 400, 401, 403, 404, 480, 481				
ENGWR	301*				
ESLR	340				
FASHN	330				
HIST	300*, 302*, 305*, 364*, 365*, 373*, 380*				
HUM	300, 310, 332, 350, 352, 480, 483				
MUFHL	305, 309, 310, 311, 315, 320, 330, 400, 481, 482				
PHIL	300*, 310, 330, 331, 333, 338, 352, 353, 354, 368*, 480, 481, 482*				
SILA	305, 306, 315, 316				
SPAN	425, 427				
TA	300, 302, 303, 308, 310, 312, 314, 315, 318, 323, 454, 455				
	Foreign Languages: ARABIC 401, 402 CANT 401, 402, 411, 412 FARSI 401, 402 FREN 101, 401, 402, 411, 412 GERM 401, 402, 411, 412 GREEK 401, 402 ITAL 401, 402 JAPAN 101, 401, 402, 411, 412 KOREAN 401, 402 MAND 101, 102, 401, 402, 411, 412 PNJABI 401, 402 RUSS 401, 402, 411, 412 SPAN 401, 402, 411, 412, 413, 415 TGLG 401, 402 VIET 401, 402				
	Course: _____ College: _____				
II. (was Area D) – Languages and Rationality (6 units minimum) – 3 units from II(a) and 3 units from II(b)					
II(a)	(was Area D1) – English Composition (3 units minimum):	**3**			
BUS	310				
ENGWR	100, 300, 301*, 302*, 480, 482*				
ESLW	340				
	Course: _____ College: _____				
II(b)	(was Area D2) – Communication and Analytical Thinking (3 units minimum):	**3**			
AERO	300				
CISC	300 (1 unit), 310, 321 (1 unit)				
CISN	300, 302, 303, 304, 306, 308, 315 (2 units), 320, 322, 324, 336 (was 136), 340 (was 140), 341 (was 141), 346 (was 146), 370, 378				
CISP	301, 310, 342, 350, 360, 363 (2 units), 370, 371, 400, 401, 430, 440, 452, 457				
CISS	300 (1 unit), 301 (2 units), 355				
CISW	400, 405, 410, 411 (2 units), 420, 440 (2 units)				
COMM	301, 302, 311, 315, 316, 331, 341*, 343, 345, 361				
ECON	310				
ENGWR	302*, 482*				
ET	310 and 311 (must complete both)				
GEOG	330				
HIST	400*				
MATH	100, 104, 110, 120, 123, 124, 140, 170 (2 units), 300, 310, 334, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482				
MET	352				
PHIL	300*, 320, 322, 325				
PSYC	335				
SOC	305*				
STAT	300, 480				
SURVY	300				
	Course: _____ College: _____				

III. (was Area E) – Living Skills (3 units minimum) – 1 unit from III(a) and 2 units from III(b) **OR** III(c) if student meets Military Service Credit requirements.

III(a) (was Area E1) – Physical Education (1 unit minimum) – any activity course from: ADAPT DANCE FITNS [FITNS 454, .5 unit only, see Area III(b)] PACT PET 352 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 III(b).				**1**			
III(b)	(was Area E2) – Life Development Skills (2 units):			**2**			
ADMJ	303*	HEED	300, 321 (1 unit), 340				
BUS	320, 498 (minimum 2 units)	INDIS	240 (1 unit), 340 (1 unit)				
COMM	321, 323, 328*, 335	LIBR	318 (1 unit), 325				
ECE	314*, 415	LIBT	325				
EDT	498 (minimum 2 units)	NUTRI	300*, 302, 320, 480*				
FASHN	310	PET	307, 410, 411, 412, 418				
FCS	304, 314*, 320*, 330*, 332, 340*, 346, 480*	PSYC	353, 356, 358, 374, 390*, 392, 405*, 410				
FITNS	454 [1 unit only, see Area III(a)]	SOC	310*, 312*, 335*, 344*				
GERON	300*, 302, 334	SOCSC	350*				
HCD	110, 310, 312, 318, 330 (1 unit)	WEXP	198, 298, 498 (minimum 2 units)				
	Course: _____ College: _____						

IV. (was Area A) – Natural Sciences (3 units minimum) – Courses with (L only) indicates a lab course only for one unit.

ANTH	300, 301 (L only), 480	**3**			
ASTR	310, 320, 330, 400 (L only)				
BIOL	100, 305, 308, 320, 323, 330, 332 (2 units), 342, 350, 370, 402, 412, 422, 430, 431, 440, 464				
CHEM	300, 305, 306, 320, 330, 336, 400, 401, 410, 420, 421, 425, 426, 484 (1 unit)				
FCS	340*, 480*				
GEOG	300, 301 (L only), 306, 308				
GEOL	302, 305, 306 (L only), 308, 310, 311 (L only), 345				
NUTRI	300*, 480*				
PHYS	310, 350, 360, 410, 420, 430				
PSYC	310, 311(L only), 314, 316				
	Course: _____ College: _____				

V. (was Area B) – Social and Behavioral Sciences (6 units minimum) – One course from V(a) and one from V(b)

V(a)	(was Area B2) – American Institutions (3 units)			**3**			
HIST	310, 311, 314, 320, 321, 370, 371, 483, 484, 485						
POLS	301, 304, 481						
	Course: _____ College: _____						
V(b)	(was Area B1) – Other (3 units):			**3**			
ADMJ	303*, 342	JOUR	310, 320				
ANTH	310, 315, 317, 320, 332, 334, 341, 481	PHIL	368*, 482*				
COMM	325, 328*, 341*, 351, 363	POLS	302, 310, 312, 313, 320, 322, 340, 480				
ECE	312, 314*						
ECON	100, 302, 304	PSYC	300, 320, 340, 360, 363, 367, 370, 376, 390*, 405*, 480				
ENGWR	384						
FCS	312, 314*, 320*, 324, 326, 330*	SOC	300, 301, 305*, 310*, 312*, 321, 335*, 341, 343, 344*, 345, 375, 380, 382, 385 (maximum 1 unit allowed), 480				
GEOG	310, 320, 322, 480						
GERON	300*						
HIST	300*, 302*, 305*, 307, 308, 309, 344, 360, 364*, 365*, 373*, 380*, 400*	SOCSC	300, 320, 325, 330, 332, 335, 336, 350*, 352				
	Course: _____ College: _____						

VI. (was Area F) – Ethnic/Multicultural Studies (0-3 units minimum).
Most of these courses are also listed in Areas I–V and can be used to meet General Education requirements.

ADMJ	302 (F98)	GEOG	310 (F95)	**0 or 3**			
AH	301 (F07)	HIST	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)				
ANTH	310 (F97), 315 (F93), 317 (F06), 330 (F96), 332 (F95), 334 (F95), 341 (F05), 481 (F97)						
ARTH	320 (F93), 324 (F93), 325 (F07), 328 (F93), 330 (F93), 332 (F93), 334 (F05)	HUM	332 (F93), 483 (F06)				
BIOL	323 (F02)	JOUR	320 (F95)				
BUS	330 (F04)	MUFHL	330 (F06)				
COMM	325 (F93)	NUTRI	310 (F09)				
ECE	430 (F93)	PHIL	352 (F93), 353 (F93),				
ENGLT	327 (F06), 331 (F08), 332 (F08), 334 (F95), 335 (F99), 345 (F09) 346 (F99), 360 (F97), 365 (F09) 401 (F02), 480 (F95), 481 (F95)	POLS	312 (F07)				
		PSYC	367 (F93)				
		SOC	321 (F93), 330 (F01)				
		SOCSC	300 (F03), 320 (F93), 325 (F93), 330 (F93), 332 (F93), 335 (F93), 336 (F93)				
ESLR	340 (F00)						
FCS	342 (F05)	TA	308 (F01), 318 (F01), 454 (F93), 455 (F93)				
	Course: _____ College: _____						

"The graduation competencies listed apply only to those students who first enrolled in this college on or after Fall 2009. Students who have catalog rights that predate Fall 2009, may satisfy the graduation competencies pursuant to their catalog rights."

Competency Requirements – Complete all three areas (A, B, and C)	REQ	COMP	IN PROG	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 300, 480 ESLW 340 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: ECON 310 MATH 110, 120, 124, 140, 300, 310, 334, 335, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482 PHIL 325 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**			

Transfer Information

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

Transferring to a California State University or University of California

Students planning to transfer to a California State 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, and 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 that 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 and on their website. Students are urged to meet with a counselor for additional information and assistance.

California State University

Upper-Division Transfers

Generally, applicants will qualify for admission as upper-division transfer student if:

1. they have a grade point average of at least 2.0 (“C” or better) in all transferable units completed; and
2. they have completed a minimum of 60 semester or 90 quarter transferable units; and
3. they are in good standing at the last college or university attended; and they have completed at least 30 semester units of college coursework with a grade of “C” or better in each course to be selected from courses in English, arts and humanities, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements. The 30 units must include all of the general education requirements in communication in the English language and critical thinking (at least 9 semester units) and the requirement in mathematics/quantitative reasoning (usually 3 semester units) OR the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

NOTE: All admission requirements (i.e., units, grade point average and specific subjects) must be completed prior to the summer semester for fall enrollment and the fall semester for spring enrollment.

Lower-Division Transfers

Students will quality for admission if they have a grade point average of at least 2.0 (“C” or better) in all transferable units completed, are in good standing at the last college or university attended, and meet one of the following standards:

1. will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying, or
2. were eligible as a freshman at the time of high school graduation except for the subject requirements, and have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subjects.

Applicants who graduated from high school prior to 1988 should contact the CSU Admissions Office to inquire about alternative admission programs.

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 that 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.

Air Force ROTC

Air Force Reserve Officer Training Corps is available to SCC students through a program offered at California State University, Sacramento. The CSUS Department of Aerospace Studies offers two-, three-, and four-year programs leading to a commission in the United States Air Force. All coursework is completed at CSUS. Scholarships are available to qualified students. Application to the program is typically completed not later than the first semester of the sophomore year, but juniors may apply under certain conditions. Contact the CSUS Unit Admissions Officer at (916) 278-7783 for information.

CALIFORNIA STATE UNIVERSITY SYSTEM
General Education-Breadth Requirements
2009-10

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 PROG	NEED
A. Communication in the English Language and Critical Thinking (9 units minimum) One course from each numbered section (A1, A2, and A3)					
A1 COMM	Oral Communication 301, 302, 311**, 331, 361 Course: _____ College:	**one**			
A2 ENGWR ESLW	Written Communication 300, 480 340 Course: _____ College:	**one**			
A3 COMM ENGWR HIST PHIL SOC	Critical Thinking 311**, 315, 316 301, 302, 482 400 300**, 320, 322, 325 305 Course: _____ College:	**one**			
B. Physical Universe and Its Life Forms (9 units minimum) – One course from each numbered section (B1, B2, and B4). One of the science courses in B1 or B2 must have a laboratory component – designated with an **(L)**. B3 is this laboratory activity.					
B1 ASTR CHEM GEOG GEOL PHYS	Physical Science 310, 320, 330, 400(L only), 300(L), 305(L), 306(L), 320(L), 330(L), 336(L), 400(L), 401(L), 410(L), 420(L), 421(L), 425(L), 426(L), 484(L) 300 (lab is 301), 301(L only), 306, 308 302(L), 305 (lab is 306), 306(L only), 308, 310 (lab is 311), 311(L only), 345 310, 350(L), 360(L), 410(L), 420(L), 430(L) Course: _____ College:	**one or one with lab**			
B2 ANTH BIOL PSYC	Life Science 300 (lab is 301), 301(L only), 480 305(L), 308 (lab is 309), 309(L only), 323(L), 342**, 350, 370(L), 402(L), 412(L), 422(L), 430(L), 431(L), 440(L), 444(L), 464 (lab is 465), 465(L only) 310 (lab is 311), 311(L only) Course: _____ College:	**one or one with lab**			
B. Physical Universe and Its Life Forms – continued (one course from B4)		MIN. COURSES	COM-PLETED	IN PROG	NEED
B4 CISP ECON MATH STAT	Mathematics/Quantitative Reasoning: 440 310 300, 310, 334, 335, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482 300, 480	**one**			
	Course: _____ College:				

C. Arts, Literature, Philosophy and Foreign Language (9 units minimum)
At least one course from C1 and C2; one additional course is required and can be chosen from either C1 or C2.
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	Arts						
ART	300, 305, 320, 324, 337, 370*, 380, 390, 400						
ARTH	300, 302, 304, 306, 307, 308, 310, 312, 313, 314, 318, 320, 324, 325, 328, 330, 332, 334, 484, 486, 487						
COMM	305			**one**			
ENGLT	400, 403**, 404						
HUM	332**, 350**, 352**, 483**						
MUFHL	305, 309, 310, 311, 315, 320, 330, 400, 401, 410, 411, 481, 482						
MUIVI	300*, 315*, 325, 345, 365*, 366*, 367, 368*, 380, 381, 382, 383, 441*, 443*, 445*, 447*						
MUP	315*, 325*, 335*, 340*, 355*, 402*, 411*, 413*, 415*, 417*						
MUSM	342*, 344						
TA	300, 302, 303, 308, 310, 312, 314, 315, 318**+, 320*, 364, 370 (2 units), 404, 437 (2 units), 454						
	Course: _____ College:						
C2	Humanities		**Foreign Languages:**				
ENGCW	400, 410, 420, 431	ARABIC	401, 402				
ENGLT	303, 304, 310, 311, 317, 320, 321, 327, 331, 332, 334**, 335, 345, 346, 360, 365, 370, 380, 392, 401, 403**, 480, 481	CANT	401, 402, 411, 412	**one**			
		FARSI	401, 402				
		FREN	401, 402, 411, 412				
		GERM	401, 402, 411, 412				
ESLR	340	GREEK	401, 402				
FASHN	330	ITAL	401, 402				
HIST	300**, 302**, 305**, 307**, 308**, 360**, 364**, 365**, 373**, 380**	JAPAN	401, 402, 411, 412				
		KOREAN	401, 402				
HUM	300, 310, 332**, 350**, 352**, 480, 483**	MAND	401, 402, 411, 412				
PHIL	300**, 310, 330, 331, 333, 338, 352, 353, 354, 368**, 480, 481, 482**	PNJABI	401, 402				
		RUSS	401, 402, 411, 412				
SILA	305, 306, 315, 316	SPAN	401, 402, 411, 412, 413, 415				
SPAN	425, 427	TGLG	401, 402				
TA	318**	VIET	401, 402				
	Course: _____ College:						
Additional Arts or Humanities course required, chose from either C1 or C2.				**one**			
Course: _____ College:							

D. (D0-D9) Social, Political and Economic Institutions and Behavior, Historical Background (9 units minimum)
(These courses are listed as Areas D0-D9 in ASSIST)
Two course combination from D1a or D1b **and** one course from D2.

D1a POLS 301** or 481** ***paired with***	**one**			
HIST 310** or 311** or 320** or 321** or 370** or 371** or 483** or 484**	**plus**			
Course: _____ College:	**one**			
Course: _____ College:				
D1b HIST 310** or 320** or 483** ***paired with***	**one**			
HIST 311** or 321** or 484** or POLS 301** or 304** or 481**	**plus**			
Course: _____ College:	**one**			
Course: _____ College:				

D. (D0-D9) Social, Political and Economic Institutions and Behavior, Historical Background (9 units minimum)
(These courses are listed as Areas D0-D9 in ASSIST)
Two course combination from D1a or D1b **and** one course from D2.

D1a	POLS 301** or 481** ***paired with*** HIST 310** or 311** or 320** or 321** or 370** or 371** or 483** or 484** Course: _____ College: Course: _____ College:	**one plus one**			
D1b	HIST 310** or 320** or 483** ***paired with*** HIST 311** or 321** or 484** or POLS 301** or 304** or 481** Course: _____ College: Course: _____ College:	**one plus one**			
D. (D0-D9) Social, Political and Economic Institutions and Behavior – continued		**MIN. COURSES**	**COM-PLETED**	**IN PROG**	**NEED**
D2					
ADMJ	302, 303, 342				
ANTH	310, 315, 317, 320, 330, 332, 334, 341, 481				
BUS	330, 345				
COMM	321, 325, 328, 335, 341, 351, 363				
ECE	312**, 314**				
ECON	302, 304	**one**			
ENGLT	334**				
ENGWR	384				
FCS	312**, 314**, 320**, 324**, 326**, 330**, 332**				
GEOG	310, 320, 322, 480				
GERON	300**, 302**				
HIST	300**, 302**, 305**, 307**, 308**, 309, 310**, 311**, 314, 320**, 321**, 344, 360**, 364**, 365**, 370**, 371**, 373**, 380**, 483**, 484**, 485				
JOUR	310, 320				
PHIL	368**, 482**				
POLS	301**, 302, 304**, 310, 312, 313, 320, 322, 340, 480, 481**				
PSYC	300, 314, 316, 320, 335, 340**, 353**, 356**, 360**, 363, 367, 370**, 374**, 376, 390**, 392** (2 units), 405, 480				
SOC	300, 301, 310**, 312**, 321, 330, 335**, 341**, 343, 344**, 345, 375, 480				
SOCSC	300, 320, 325, 330, 332, 335, 336, 350, 352 Course: _____ College:				
E. Lifelong Understanding and Self Development (3 units minimum)					
BIOL	342**				
BUS	320				
ECE	312**, 314**, 415				
FCS	304, 312**, 314**, 320**, 324**, 326**, 330**, 332**, 340, 344, 346, 480				
GERON	300**, 302**	**3 units**			
HEED	300				
HCD	310				
NUTRI	300, 302, 330, 480				
PE	(one unit maximum) any CSU transferable course from: ADAPT, DANCE, FITNS (except FITNS 371 or 372), PACT, SPORT, TMACT				
PET	411, 418				
PSYC	340**, 353**, 356**, 358, 360**, 370**, 374**, 390**, 392** (2 units), 410				
SOC	310**, 312**, 335**, 341**, 344** Course: _____ College:				

University of California

Junior-Level Transfer

To be eligible for admission as a junior transfer student, a student must fulfill both of the following criteria:

1. Complete 60 semester (90 quarter) units of transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). No more than 14 semester (21 quarter) units may be taken Credit/No Credit.
2. Complete the following course pattern requirements, earning a grade of "C" or better in each course:
   a) Two transferable college courses (3 semester or 4-5 quarter units each) in English composition;
   b) One transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning,
   c) 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.

If a student satisfies the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC, he or she may satisfy part 2 of the transfer eligibility requirements).

Lower-Division Transfer

The University admits some transfer students before they reach junior standing if they have met specific requirements.

If a student was eligible for admission to the University when he or she graduated from high school - meaning the student satisfied the Subject, Scholarship and Examination Requirements, or was identified by the University as eligible in the local context and completed the Subject and Examination Requirements in the senior year, the student is eligible for transfer if he or she has a "C" (2.0) average in transferable college coursework.

If a student met the Scholarship requirement in high school but did not satisfy the Subject Requirement, the student must take transferable college course sin the missing subject, ear a "C" or better in each required course, and maintain an overall 2.0 GPA in all transferable coursework to the eligible to transfer.

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.

Intersegmental General Education Transfer Curriculum (IGETC)
University of California or California State University
2009-10

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	COM-PLETED	IN PROG	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					
1A ENGWR	**English Composition** (one course, 3 units required) 300, 480 Course: _____ College:	**one**			
1B COMM ENGWR HIST PHIL SOC	**Critical Thinking – English Composition** (one course, 3 units required) 316 301, 302, 482 400 322 305 Course: _____ College:	**one**			
1C COMM	**Oral Communication** – **CSU REQUIREMENT ONLY** (one course, 3 units required) 301, 302, 311, 331, 361 Course: _____ College:	**one**			
Area 2 – Mathematical Concepts and Quantitative Reasoning (one course, 3 units required)					
CISP ECON MATH STAT	440 310 300, 350, 351, 370, 400, 401, 402, 410, 420, 482 300, 480 Course: _____ College:	**one**			

Area 3 – Arts and Humanities (three courses, 9 units required) – Three courses with at least one from the Arts and one from Humanities.

3A	**Arts**						
ARTH	300, 302, 304, 306, 308, 310, 312, 313, 314, 320, 324, 325, 328, 330, 332, 334, 484, 486, 487						
COMM	305			**one**			
ENGLT	400, 403**						
MUFHL	305, 309, 310, 311, 315, 320, 330, 400, 401, 410, 411, 481, 482						
TA	300, 302, 303, 308, 310, 312, 314, 315, 320, 454						
	Course: _____ College:						
3B	**Humanities**						
ANTH	330**		Foreign Languages:				
ENGLT	303, 304, 310, 311, 317, 320, 321, 327, 331, 332, 334, 335, 345, 346, 360, 380, 392, 401, 403**, 480, 481	CANT FREN GERM JAPAN	411, 412 411, 412 411, 412 411, 412	**one**			
HIST	300, 302, 305, 360**, 364, 365, 373	MAND	411, 412				
HUM	300, 310, 332, 350, 352, 480, 483	SPAN	411, 412				
PHIL	300, 310, 330, 331, 333, 338, 352, 353, 354, 368, 480, 481, 482						
SILA	315, 316						
TA	318						
	Course: _____ College:						
One additional course is required and can be chosen from either 3A or 3B.							
	SCC Course:			**one**			

Area 4 (4A-4J) – Social and Behavioral Sciences (three courses, 9 units required)
Three courses from at least two disciplines. These courses are listed as Area 4A-J in ASSIST.

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	310, 315, 317, 320, 330**, 332, 334, 341, 481				
BUS	345				
COMM	321, 325, 328, 351, 363	**one**			
ECE	312, 314				
ECON	302, 304				
ENGWR	384				
FCS	312, 314, 320, 324, 326, 330, 332				
GEOG	310, 320, 322, 480				
GERON	300, 302				
HIST	307, 308, 309, 310*, 311*, 314, 320*, 321*, 344, 360**, 370*, 371*, 380, 483*, 484*, 485				
JOUR	310, 320				
POLS	301*, 302, 304, 310, 312, 313, 320, 322, 340, 480, 481				
PSYC	300, 316, 320, 335, 340, 356, 360, 363, 367, 370, 374, 376, 390, 480				
SILA	330				
SOC	300, 301, 310, 312, 321, 330, 335, 341, 343, 344, 345, 480				
SOCSC	300, 320, 325, 330, 332, 335, 336, 350, 352				
	Course: _____ College:				
		one			
		one			

Area 5 – Physical and Biological Sciences (two courses, 7-9 units required)
One Physical Science course and one Biological Science course; at least one course must include a laboratory. Courses with a **(L)** contain a laboratory.

5A	**Physical Science**				
ASTR	310, 320, 330, 400 (L only)	**one or one with lab**			
CHEM	300 (L), 305 (L), 306 (L), 320 (L), 330 (L), 336 (L), 400 (L), 401 (L), 410 (L), 420 (L), 421 (L), 425 (L), 426 (L)				
GEOG	300, 301 (L only), 306, 308				
GEOL	302 (L), 305, 306 (L only), 308, 310, 311 (L only), 345				
PHYS	310, 350 (L), 360 (L), 410 (L), 420 (L), 430 (L)				
	Course: _____ College:				
5B	**Biological Science**				
ANTH	300, 301 (L only), 480	**one or one with lab**			
BIOL	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)				
PSYC	310 (lab is 311), 311 (L only)				
	Course: _____ College:				

AREA 6 Language Other Than English – (UC REQUIREMENT ONLY) Completion of a college level foreign language course or higher: **ARABIC** 401, **CANT** 401, **FARSI** 401**, FREN** 401, **GERM** 401, **ITAL** 401**, JAPAN** 401, **KOREAN** 401, **MAND** 401, **PNJABI** 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: 1. **POLS** 301 or 481 ***-PLUS-*** **HIST** 310 or 311or 320 or 321 or 370 or 371 or 483 or 484, **or** 2. **HIST** 310 or 320 or 483 -***PLUS-*** **HIST** 311 or 321 or 484 or POLS 301 or 304 or 481 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 Leadership 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
GREEK - Greek
HCD - Human Career Development
HEED - Health Education
HIST - History
HUM - Humanities
HSER - Human Services
IDES - Interior Design (See Fashion and Interior Design)
INDIS - Interdisciplinary Studies
ITAL - Italian (See Foreign Languages)
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
NUTRI - Nutrition
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
PNJABI - Punjabi (See Foreign Languages)
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
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:

ACCEPTABLE FOR CREDIT: identifies the transfer status of a course to the University of California (UC) and/or California State University (CSU) systems.

ADVISORIES: recommneded courses and/or skill levels to meet prior to enrolling in the course or program to ensure success.

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

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

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

CLASS SCHEDULE: the listing of courses with days, time, instructors, and room locations to be offered each semester.

COREQUISITE: a course in which a student is required to enroll at the same time as another course.

COUNSELOR: a trained faculty member assigned to assist students with academic, career, personal, and crisis intervention.

CREDIT GRADING: course for which units and a letter grade are granted.

CREDIT/NO CREDIT: a grading system allowing a course to be taken for Credit or No Credit rather than for a letter grade. A student will be granted Credit if a "C" grade or better is earned.

ELECTIVES: courses elected by the student that do not fulfill a major or general education requirement but provide units toward the degree.

ENROLLMENT LIMITATION: courses, skill level, or other requirements a student must meet prior to enrollment in a course or program. If required, these will be listed with the course description.

GENERAL EDUCATION: 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 grade of all units attempted by a student.

LOWER DIVISION: the first two years of college work, i.e., freshman and sophomore years and/or courses.

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 required.

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

PREREQUISITE: a course or skill level a student must meet priot to enrollment in a course or program. If required, prerequisites are listed with 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. Most AA/AS degrees require a minimum of 60 semester units. One semester unit is equivalent to one and a half quarter units.

TRANSCRIPT OF RECORD: an official copy of a student's college record 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. Upper division courses are only offered at four-year colleges/universities.

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, but not accepted as transfer credit.
300-499	Courses numbered 300 through 499 are transferable, articulated with four-year institutions, and intended to meet major, general education or elective credit requirements. Courses transferable to the University of California are designated in the description. These courses are also applicable to the Associate Degree, Certificate of Achievement, and Certificate of Completion.
1000	Courses numbered 1000 are typically used to identify individualized tutoring (i.e., HSER 1000) or preparatory courses to assist students with skills for employment or licensure (i.e., NURSE 1000).

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 "course transferable to" 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 system will continue to honor the following SCC CAN courses until the "expiration date" listed. For courses marked with "TBD (to be determined), an expiration date has not been determined. Eventually, the CAN system will be terminated. A new numbering system has been developed called "TCSU" and the course approval process is underway. Coming soon, the new Lower Division Transfer Pattern (LDTP) using TCSU numbers will be available as another pathway for students to transfer to CSU campuses.

CAN numbers are used to identify commonly taught courses at CSU campuses and community colleges throughout the state. This system assures students that CAN courses at one participating campus will be accepted at another participating campus. For example: CAN ECON 2, Macroeconomics at one campus will be accepted as a comparable course at every other participating CAN campus (a CSU campus and/or community college).

Course Number	Sacramento City College	Expiration Date
AJ 2	ADMJ 300	Fall 2009
AJ 4	ADMJ 320	Fall 2009
ANTH 2	ANTH 300	Fall 2009
ANTH 4	ANTH 310	Fall 2009
ANTH 6	ANTH 320	Fall 2009
ART 2	ARTH 304 & 306	Fall 2009
ART 4	ARTH 308	Fall 2009
ART 8	ART 300	Fall 2009
ART 14	ART 320	Fall 2009
BIOL 10	BIOL 430	TBD
BIOL 12	BIOL 431	TBD
BIOL 14	BIOL 440	TBD
BIOL SEQ A	BIOL 402 & 412 & 422	Fall 2009
BUS 2	ACCT 301	Fall 2009
BUS 4	ACCT 311	Fall 2009
CHEM 2	CHEM 400	Fall 2009
CHEM 4	CHEM 401	Fall 2009
CHEM SEQ A	CHEM 400 & 401	Fall 2009
CHEM SEQ B	CHEM 305 & 306	Fall 2009
CSCI 24	CISP 430	Fall 2009
ECON 2	ECON 302	Fall 2010
ECON 4	ECON 304	Fall 2010
ENGR 4	ENGR 412	TBD
ENGR 8	ENGR 422	TBD
ENGR 10	ENGR 310	TBD
ENGR 12	ENGR 400	Fall 2010
FCS 2	FCS 340	Fall 2009
FCS 14	FCS 312 or ECE 312	Fall 2010
FREN SEQ B	FREN 411 & 412	Fall 2010
GEOG 2	GEOG 300	Fall 2009
GEOG 4	GEOG 310	Fall 2009
GEOL 2	GEOL 302	TBD
GOVT 2	POLS 301	Fall 2009
HIST 8	HIST 310	Fall 2010
HIST 10	HIST 311	Fall 2010
HIST 14	HIST 307	Fall 2010
JAPN SEQ A	JAPAN 401 & 402	Fall 2010
MATH 18	MATH 400	Fall 2009
MATH 20	MATH 401	Fall 2009
MATH 22	MATH 402	Fall 2009
MATH 24	MATH 420	Fall 2009
MATH 26	MATH 410	Fall 2009
MATH 30	MATH 350	Fall 2009
MATH SEQ B	MATH 400 & 401	Fall 2009
PHIL 4	PHIL 310	Fall 2009
PHYS 2	PHYS 350	Fall 2009
PHYS 8	PHYS 410	TBD
PHYS 12	PHYS 420	TBD
PSY 2	PSYC 300	Fall 2009
PSY 6	PSYC 335	TBD
SOC 2	SOC 300	Fall 2009
SOC 4	SOC 301	Fall 2009
SPAN 8	SPAN 411	Fall 2009
SPAN 10	SPAN 412	Fall 2009
SPAN SEQ B	SPAN 411 & 412	Fall 2009
SPCH 4	COMM 301	Fall 2009
SPCH 6	COMM 311	Fall 2009
SPCH 8	COMM 321	Fall 2009
SPCH 10	COMM 331	Fall 2009
STAT 2	STAT 300	TBD

Degrees, Certificates, Courses, and Transfer Majors

Associate Degree

The Associate Degree may be obtained by the completion of all required courses for a major (18 units or more), fulfill general education requirements, satisfy competencies, and sufficient electives to meet a minimum total of 60 units with a grade point average of 2.0 ("C" average). Degrees are designated by "A.A." for Associate in Arts and "A.S." for Associate in Science.

Certificates

Certificate of Achievement (18 units or more) formerly known as Career Certificate is offered to students completing program requirements.

Certificates of Achievement are intended to certify that students completing all required courses for a major are prepared to enter the careers designated on their certificates. Certificates of Achievement 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. Certificates of Achievement are designated with "COA."

Certificates of Completion (17.5 units or less) 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, a minimum of 12 units must be completed at Sacramento City College.

Level 1 — 3-6 units

Level 2 — 7-11 units

Level 3 — 12-17.5 units

Sacramento City College offers the following:

- Accounting (A.S., COA)
  - Accounting Clerk/Bookkeeper – Entry Level (COA)
  - Accounting Clerk/Bookkeeper – Advanced Level (COA)
- Administration of Justice (A.A.)
  - Correctional Services (A.S., COA)
  - Police Services (A.S., COA)
- Aeronautics
  - Airframe (A.S., COA)
  - Powerplant (A.S., COA)
  - Combined Airframe and Powerplant (A.S., COA)
  - Flight Technology (A.S., COA)
  - Nondestructive Testing (A.S., COA)
- Allied Health (courses only)
- Anthropology (A.A.)
- Art (A.A.)
- Art History (A.A.)
- Astronomy (courses only)
- Biology (A.S.)
  - Field Ecology (COA)
- Business
  - Business, General (A.S.)
  - Business Administration (A.A.)
  - Bookkeeping and Office Management (A.S., COA)
  - Customer Service (COC, Level 1)
  - Insurance (A.S., COA)
  - Insurance, Basic (COC, Level 3)
  - Management (A.S., COA)
  - Small Business Management (A.S., COA)
  - Retail Management (COA)
  - Marketing (A.S., COA)
  - Marketing, Advertising (A.S.)
  - Office Administration
    - Computer Keyboarding and Office Applications (COA)
    - Clerical General Office, Level A (COA)
    - Introduction to Computerized Office Technologies, Level B (COA)
    - Business Operations and Management Technology, Level C (COA)
    - Virtual Office and Management Technologies, Level D (A.S., COA)
  - Real Estate (A.S., COA)
- Chemistry (A.S.)
- Communication (A.A.)
- Community Leadership Development (courses only)
- Community Studies (Emphasis on Direct Services) (A.A., COA)
- Computer Information Science
  - Computer Science (A.S., COA)
  - Management Information Science (A.S., COA)
  - Database Management (COA)
  - Programming (COA)
  - Information Processing (A.S.)

- Information Processing Specialist (COA)
- Information Processing Technician (COC, Level 3)
- Word Processing Technician (COC, Level 2 or 3)
- Information Systems Security (A.S., COA)
- Network Administration (A.S., COA)
- Network Design (A.S., COA)
- Advanced CISCO Networking (COC, Level 3)
- Microcomputer Technician (also listed under Electronics Technology) (A.S., COA)
- PC Support (COA)
- Web Developer (A.S., COA)
- Active Server Pages Developer (COC, Level 3)
- International Computer Driving License (COC, Level 2)
- Webmaster, Level 1 (COA)
- Webmaster, Level 2 (COA)

Cosmetology (A.S., COA)
- Art & Science of Nail Technology (COC, Level 3)

Dental Assisting (A.S., COA)
Dental Hygiene (A.S.)
Early Childhood Education
- Early Childhood Education (A.A., COA)
- Infant Care and Education (A.A.)
- Infant Care and Education Teacher (COA)
- Master Teacher (A.A., COA)
- Site Supervisor (A.A.)
- Teacher (COA)
- Associate Teacher (COC, Level 3)
- Family Child Care (COC, Level 3)
- School-Age Care and Education (A.A.)
- School-Age Care and Education Teacher (COA)
- School-Age Site Supervisor (A.A.)
- School-Age Assistant Teacher (COC, Level 2)
- School-Age Associate Teacher (COC, Level 3)
- School-Age Master Teacher (COA)

Economics (courses only)
Electric Vehicle Technology (courses only)
Electronics Technology
- Automated Systems Technician (A.S., COA)
- Electronics Facilities Maintenance Technician (A.S., COA)
- Electronics Mechanic (COA)
- Microcomputer Technician (also listed under Computer Information Science) (A.S., COA)
- Telecommunications Technician (A.S., COA)

Engineering
- Civil (A.S.)
- Electrical/Computer (A.S.)
- General (A.S.)
- Mechanical/Aeronautical (A.S.)

Engineering Design Technology (A.S., COA)
- Architectural/Structural Drafting (A.S., COA)
- Electric (Power-Lighting Systems) (A.S., COA)
- HVAC Systems Design (A.S., COA)
- Mechanical (HVAC/Plumbing Systems) (A.S., COA)
- Surveying (Geomatics) (COA)

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., COA)
- Fashion Design and Production (A.A., COA)
- Interior Design Sewing (A.A., COA)
- Production Sewing (COC, Level 2)

Fine Arts (A.A.)
Foreign Languages (courses only)
Geography (courses only)
Geology (courses only)
Gerontology (A.S., COA)
Graphic Communication (A.S., COA)
- Digital Illustration (COC, Level 1)
- Graphic Design Production (COC, Level 3)
- Image Editing (COC, Level 2)
- Page Layout (COC, Level 2)
- Prepress (COC, Level 2)
- Web Design (COA)
- Web Design Basics (COC, Level 3)

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., COA)
- General (A.A., COA)
- Special Education (A.A., COA)

Interdisciplinary Studies (courses only)
International Studies (A.A.)
Journalism (A.A.)
- Publications Specialist (COA)

Liberal Arts (A.A.)
Liberal Studies (A.A.)
Liberal Studies for Elementary Teachers (A.A.)
Library (courses only)
Library and Information Technology (A.S., COA)
Mathematics (A.S.)
Mechanical-Electrical Technology (A.S., COA)
- Mechanical Systems Technician (COA)
- Water and Wastewater Treatment Plant Operation (A.S., COA)

Metals Industry Technology (courses only)
Motorcycle Maintenance Technician (A.S., COA)
Music
- General (A.A.)
- Commercial Music (A.A., COA)
  - Audio Production Emphasis
  - Music Business Management Emphasis
  - Performance Emphasis
  - Songwriting/Arranging Emphasis

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

Occupational Therapy Assistant (A.S.)
Philosophy (courses only)
Photography (A.A., COA)
- Commercial Photography (COA)
- Digital Photography (COA)

- Fine Art Photography (COA)
- Photojournalism (COA)
- Portrait and Wedding Photography (COA)
- Stock Photography (COA)

Physical Education (A.A.)
- Kinesiology - Athletic Training (A.A.)
- Kinesiology - Exercise Science (A.A.)

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

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

Accounting ACCT

Associate in Science Degree

Certificate of Achievement

Accounting, Degree and Certificate of Achievement

Accounting Clerk/Bookkeeper - Junior Entry Level, Certificate of Achievement

Accounting Clerk/Bookkeeper - Advanced Level, Certificate of Achievement

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

Accounting

Associate in Science Degree
Certificate of Achievement

Program Information
The Accounting degree focuses on preparation for employment in all sizes and types of business including governmental agencies. The program develops a common foundation in accounting for all students but is flexible enough to meet individual career goals.

Career Opportunities
The Accounting degree is designed to provide the knowledge necessary for immediate employment at an entry or intermediate level accounting, bookkeeping, or clerk position with many private sector and government organizations. The degree is also designed to provide a excellent base of knowledge for those who would like to pursue an advanced degree in accounting, business, economics, or law. The accounting courses also meet unit requirements of local area governmental employers' promotional exams in accounting. All the accounting courses in this program can be used to meet unit requirements of the California State Board of Accountancy's Certified Public Accountant's exam.

Upon completion of this program, the student will be able to:

- evaluate and perform all steps in the financial accounting cycle for profit-oriented businesses using the guidelines as prescribed by Generally Accepted Accounting Principles.
- analyze financial information, trace costs, prepare budgets, and prepare various reports for management decision making.
- use the microcomputer and common accounting software to record and perform all the steps in the financial accounting cycle.
- integrate the principles of business, business law, economics and ethics into the accounting functions.
- perform tasks at an advanced level in at least two of the following areas of accounting: financial auditing, cost accounting, payroll accounting, individual taxation, governmental accounting, or governmental auditing.

Required Program

ACCT 101 Fundamentals of College Accounting 3
ACCT 103 Intermediate Accounting - Part I 4
ACCT 104 Intermediate Accounting - Part II 4
ACCT 301 Financial Accounting 4
ACCT 311 Managerial Accounting 4
ACCT 341 Computerized Accounting 2

A minimum of 3 units from the following: 3
  BUS 106 Business Mathematics (1 - 3)
  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

A minimum of 6 units from the following: 6
  ACCT 107 Auditing (3)
  ACCT 111 Cost Accounting (3)
  ACCT 121 Payroll Accounting (3)
  ACCT 125 Federal and State Taxation (4)
  ACCT 151 Governmental Auditing (3)
  ACCT 153 Governmental Accounting (3)
  ACCT 343 Computer Spreadsheet Applications for Accounting (2)

A minimum of 9 units from the following: 9
  BUS 100 English for the Professional (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)
  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)
  Total Units Required **44**

Suggested Electives
ACCT 299, CISC 320

Associate in 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. See SCC graduation requirements.

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

Accounting Clerk / Bookkeeper - Junior Entry Level

Certificate of Achievement

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

Career Opportunities
Career opportunities would include entry level accounting clerk or bookkeeper in any type of business (profit or non-profit, private or government). This would include jobs entitled such as the following: account payable clerk, accounts receivable clerk, office clerk, data entry clerk, financial assistant, payroll assistant, assistant bookkeeper, bookkeeper, and office assistant.

Upon completion of this program, the student will be able to:
- explain the basic operations and goals of profit-oriented businesses.
- explain the underlying assumptions and principles used in accrual basis accounting.
- solve basic mathematical problems.
- record basic accounting transactions in a manual or computerized accounting system.
- operate word processing and spreadsheet software under the Windows platform.

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: BUS 106 Business Mathematics (1 - 3)	3
Total Units Required	**19**

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

Accounting Clerk / Bookkeeper - Advanced Level

Certificate of Achievement

Program Information
Completion of the requirements for this certificate will provide the skills necessary for an entry-level or higher level accounting clerk or bookkeeping job. It will also provide adequate awareness of where and how the accounts clerk's or bookkeeper's job fits within the organization's goals and objectives. It will also provide the opportunity for more rapid advancement within the accounting department than the Accounting Clerk/Bookkeeper - Entry Level Certificate.

Career Opportunities
Career opportunities would include entry level and higher 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 Accounting Clerk/Bookkeeper - Entry Level Certificate. This would include jobs entitled such as the following: account payable clerk, accounts receivable clerk, office clerk, data entry clerk, financial assistant, payroll assistant, assistant bookkeeper, bookkeeper, and office assistant.

Upon completion of this program, the student will be able to:
- explain the basic operations and goals of profit-oriented businesses.
- explain the underlying assumptions and principles used in accrual basis accounting.
- solve basic mathematical problems.
- record basic accounting transactions in a manual or computerized accounting system including preparation of monthly, quarterly or yearly adjusting entries.
- operate word processing and spreadsheet software under the Windows platform including preparing extensive and complicated reports using spreadsheet software.
- prepare a greater variety and more extensive accounting reports for management than a person who has completed the Accounting Clerk/Bookkeeper - Entry Level Certificate.

Required Program	Units
ACCT 101 Fundamentals of College Accounting	3
ACCT 103 Intermediate Accounting - Part I	4
ACCT 301 Financial Accounting	4
ACCT 311 Managerial Accounting	4
ACCT 341 Computerized Accounting	2
A minimum of 3 units from the following course: BUS 106 Business Mathematics (1 - 3)	3
BUS 300 Introduction to Business	3
BUS 310 Business Communications	3
CISC 300 Computer Familiarization	1
CISA 305 Beginning Word Processing	2
CISA 310 Introduction to Electronic Spreadsheets	1
CISA 311 Intermediate Electronic Spreadsheets	1
Total Units Required	**31**

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

Accounting (ACCT)

ACCT 101 Fundamentals of College Accounting 3 Units

Prerequisite: None.
Hours: 54 hours LEC
This course is the study of accounting practices, procedures and techniques as an information gathering system for paraprofessionals. Emphasis is on the techniques used to calculate, record, summarize and present financial data. Major topics include journals, 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 4 Units

Prerequisite: ACCT 301 with a grade of "C" or better
Hours: 72 hours LEC
This course is a continuing study of accounting theory introduced in ACCT 301 as related to cash and cash flows, receivables, inventories, plant and equipment, and current liabilities.

ACCT 104 Intermediate Accounting - Part II 4 Units

Prerequisite: ACCT 103 with a grade of "C" or better
Hours: 72 hours LEC
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.

ACCT 107 Auditing 3 Units

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

ACCT 111 Cost Accounting 3 Units

Prerequisite: ACCT 311 with a grade of "C" or better
Hours: 54 hours LEC
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 or ACCT 301 with a grade of C or better.
Hours: 54 hours LEC
This is a study of payroll records, procedures, and regulations. The course will include a study of the various Calfornia 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 125 Federal and State Taxation 4 Units

Prerequisite: None.
Hours: 72 hours LEC
This course covers federal and California tax regulations pertaining to individual returns. Topics include filing of returns, income and adjustments, itemized deductions, gains and losses, tax credits, and differences between federal and state tax laws. This course is California Tax Education Council (CTEC) compliant.

ACCT 151 Governmental Auditing 3 Units

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

ACCT 153 Governmental Accounting 3 Units

Prerequisite: ACCT 301 with a grade of "C" or better
Hours: 54 hours LEC
This course covers accounting and financial reporting for governmental units and institutions with emphasis on the principles of fund accounting and the comprehensive annual financial report as prescribed by the Governmental Accounting Standards Board. Additional topics include the accounting aspects of budgeting and budgetary control for governmental entities and accounting for non-profit organizations.

ACCT 295 Independent Studies in Accounting 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

ACCT 299 Experimental Offering in Accounting .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
See Experimental Offering

ACCT 301 Financial Accounting 4 Units

Prerequisite: None.
Course Transferable to UC/CSU
Hours: 72 hours LEC; 18 hours LAB
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

Prerequisite: ACCT 301 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 72 hours LEC; 18 hours LAB
This is a 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 Computerized Accounting 2 Units

Prerequisite: Either CISC 300 and ACCT 101 or ACCT 301 with grades of "C" or better.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
This course emphasizes the major areas of a computerized accounting system: general ledger, accounts receivable and revenues, accounts payable and expenses and purchases, fixed assets and depreciation, cash receipts and cash disbursements, bank reconciliations, job order costing, adjusting and closing entries, and financial statements. The course provides practical experience in the use of master files, transactions, and reports. Individual sections of this course will use software designed for small businesses such as QuickBooks, Peachtree, or other contemporary software accounting systems. This course is recommended for all accounting majors. This course may be taken two times for credit if using different accounting software systems.

ACCT 343 Computer Spreadsheet Applications for Accounting 2 Units

Prerequisite: ACCT 301 and CISA 310 with grades of "C" or better
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
This course combines the study of accounting and computer spreadsheets. Projects include business transactions, accounts receivable, inventory, payroll, special journals, financial statements, financial analysis, and other accounting topics. The course focuses on accuracy, clarity, creativity, adaptability, and presentation skills.

ACCT 495 Independent Studies in Accounting 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

ACCT 499 Experimental Offering in Accounting .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Experimental Offering

Administration of Justice ADMJ

Associate in Arts Degree

Associate in Science Degree

Certificate of Achievement

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Administration of Justice, Degree

Correctional Services, Degree and Certificate of Achievement

Police Services, Degree and Certificate of Achievement

Administration of Justice

Associate in Arts Degree

Program 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.

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.

Required Program	**Units**
ADMJ 300, Introduction to Administration of Justice	3
ADMJ 301 Applied Reporting Techniques for Criminal Justice	3
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 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
Total Units Required	**24**

Associate in Arts (A.A.) Degree

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. See SCC graduation requirements.

Correctional Services

Associate in Science Degree
Certificate of Achievement

Program Information
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 to provide them with a comprehensive understanding of correctional history, legal fundamentals, philosophy, and techniques.

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

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 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 303 Substance Abuse: Effects on Body (3) and Behavior	3
or PSYC 405 Substance Abuse: Effects on Body (3) and Behavior	
ADMJ 340 Introduction to Correctional Services	3
ADMJ 346 Probation and Parole	3
Total Units Required	**33**

Suggested Electives
ADMJ 342, 347, 498.

Associate in 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. See SCC graduation requirements.

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

Police Services

Associate in Science Degree
Certificate of Achievement

Program Information
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.

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

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 (3) and Behavior	3
or PSYC 405 Substance Abuse: Effects on Body (3) and Behavior	
ADMJ 321 Substantive Criminal Law	3
Total Units Required	**33**

Suggested Electives
ADMJ 340, 346, 498.

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement 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

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades "C" or better
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, response to crime, components of the system, and current challenges to the system. The course examines the evolutions of the principles and approaches utilized by the justice system and the evolving forces that have shaped those principals and approaches. Emphasis is placed on the structure and function of the police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, sentencing, and incarceration policies. Role and role expectations of criminal justice agents will be identified and studied.

ADMJ 301 Applied Reporting Techniques for Criminal Justice 3 Units

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGRD 310 and ENGWR 100 with grades of 'C' or better
General Education: AA/AS Area VI; CSU Area D7
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course examines the complex, dynamic relationship between communities and the institutions of the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse, multicultural population. The course addresses the roles that race, ethnicity, gender, sexual orientation, social class, culture, and criminal justice professional play in shaping these relationships. The course examines new strategies, skills, tools, and cultural knowledge necessary for personnel engaged in all aspects of the criminal justice system. Special topics include the impact that terrorism and the need for homeland security have had on the dynamics of police community relations.

ADMJ 303 Substance Abuse: Effects on Body and Behavior 3 Units

Same As: PSYC 405
Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades "C" or better
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D9
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.)

ADMJ 304 Juvenile Delinquency 3 Units

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course examines the philosophy and structure of criminal law in the United States. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case studies to introduce students to criminal law and the classification of crimes against persons, property, morals, and public welfare. The course will also include some discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes.

ADMJ 321 Substantive Criminal Law 3 Units

Prerequisite: ADMJ 320 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This course 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

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course examines the origins, development, philosophy, and constitutional foundations of the rules of evidence as applied in United States law. Emphasis is placed on the types of evidence and the laws governing admissibility of evidence into criminal procedures. Topics covered include search and seizure, hearsay evidence, witness competency, and direct evidence as contrasted to circumstantial evidence.

ADMJ 326 Family Law Issues 3 Units

Same As: FCS 306
Prerequisite: None.
Advisory: ENGWR 100 with grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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. Students may receive credit for ADMJ 326 or FCS 306 but not for both.

ADMJ 330 Criminal Investigation 3 Units

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This course introduces students to investigative procedures and concepts as applied to criminal investigations. Topics include crime scene response management and identification, collection, and processing of physical evidence. In addition to surveillance and undercover assignments the course will also cover interview and interrogation techniques. The role of the investigator in the court process with emphasis on legal requirements and constraints will be discussed. Special attention will be given to identifying information sources, procuring search warrants, serving search warrants, and recognizing exceptions to the search warrant rule. Emphasis is placed on developing the student's capacity to analyze specific situations and identify appropriate investigative procedures as well as recognize constraints on their implementation.

ADMJ 331 Patrol Procedures 3 Units

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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. This 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.

ADMJ 342 Gangs and Corrections 3 Units

Prerequisite: None.
Advisory: ADMJ 340 with a grade of "C" or better
General Education: AA/AS Area V(b); CSU Area D0
Course Transferable to CSU
Hours: 54 hours LEC
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 the 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

Prerequisite: None.
Advisory: ADMJ 340 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course examines the theory and advanced practical applications of supervision in corrections. This course will focus on the skill and knowledge set of corrections professionals who are promoted into an employee supervisor or manager position. Scenarios and case studies will be utilized. This course is intended for students who possess prior experience or education in the corrections field.

ADMJ 344 Leadership Development in Corrections 3 Units

Prerequisite: None.
Advisory: ADMJ 340 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course will compare and contrast probation and parole. Topics will include organization, function, goals, ethics, historical development and treatment theory. California probation and parole programs will also be examined.

ADMJ 347 Correctional Counseling and Interviewing 3 Units

Prerequisite: None.
Advisory: ENGRD 310 and ENGWR 100 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course is designed to introduce the student to techniques involved in correctional counseling and interviewing in case development. Counseling helps correction clients 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 494 Topics in Administration of Justice .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
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.

ADMJ 495 Independent Studies in Administration of Justice 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

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

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 that relates specifically to the field of Administration of Justice.
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
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.

ADMJ 499 Experimental Offering in Administration of Justice .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Experimental Offering

Aeronautics AERO, FLTEC

Associate in Science Degree

Certificate of Achievement

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb

Technology 106

916-558-2491

Airframe, Degree and Certificate of Achievement

Powerplant, Degree and Certificate of Achievement

Combined Airframe and Powerplant, Degree and Certificate of Achievement

Flight Technology, Degree and Certificate of Achievement

Nondestructive Testing, Degree and Certificate of Achievement

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Aeronautics

Airframe

Associate in Science Degree
Certificate of Achievement

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

The Aeronautics program is governed by regulations established by the Federal Aviation Administration. This Federal Aviation Administration (FAA) approved program fulfills all of the requirements under CFR 14, Federal Aviation Regulation part 147. Completion of this program will allow the graduate to test for the FAA Airframe Mechanic Certificate.

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.

Career Opportunities
The Department of Advanced Transportation Technology currently offers courses and/or certificate programs in Aeronautics, Flight Technology, and Non-Destructive Testing. 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.

Airframe Technicians are employed by major/regional airlines, certificated repair stations, fixed based operators, charter services, flight schools, corporate flight departments, agricultural aircraft operators, helicopter operations as well as government agencies and the military. Many experienced technicians opt to operate their own aviation businesses.

Enrollment Eligibility
To be eligible for enrollment in the program, the student must meet the following criteria: Transfers from another Federal Aviation Administration Part 147 approved airframe and powerplant school must provide an official transcript and catalog for evaluation by the department.

Upon completion of this program, the student will be able to:

- demonstrate the knowledge and skills to qualify for the General and Airframe portion of the Federal Aviation Administration Airframe Mechanic exam to include the written, oral and practical tests.
- demonstrate the knowledge and skills to inspect, maintain, repair, and modify airframe structures.

Program Costs
In addition to the normal student expenses, minimal lab expenses may be incurred.

Recommended High School Preparation
English, mathematics, electronics, science, computers, and industrial shop.

Required Program	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
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 Advanced Airframe and Powerplant Inspection	5
AERO 331 Advanced Structures and Systems Inspection	5
AERO 332 Advanced Airframe and Powerplant Inspection Applications	3
AERO 333 Advanced Structures and Systems Inspection Applications	3
Total Units Required	**48**

Suggested Electives
AERO 120, 121, 340, 341, 350, 351, 361, 362, 363, 364, 365, 370

Associate in 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. See SCC graduation requirements.

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

Powerplant

Associate in Science Degree
Certificate of Achievement

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

The Aeronautics program is governed by regulations established by the Federal Aviation Administration. This Federal Aviation Administration (FAA) approved program fulfills all of the requirements under CFR 14, Federal Aviation Regulation part 147. Completion of this program will allow the graduate to test for the FAA Powerplant Mechanic Certificate.

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.

Career Opportunities
The department of Advanced Transportation Technology currently offers courses and/or certificate programs in Aeronautics, Flight Technology, and Non-Destructive Testing. 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.

Powerplant Technicians are employed by major/regional airlines, certificated repair stations, fixed based operators, charter services, flight schools, corporate flight departments, agricultural aircraft operators, helicopter operations as well as government agencies and the military. Many experienced technicians opt to operate their own aviation businesses.

Enrollment Eligibility
To be eligible for enrollment in the program, the student must meet the following criteria: Transfers from another Federal Aviation Administration Part 147 approved airframe and powerplant school must provide an official transcript and catalog for evaluation by the department.

Program Costs
In addition to normal student expenses, minimal lab expenses may be incurred.

Recommended High School Preparation
English, mathematics, electronics, science, computers, and industrial shop.

Upon completion of this program, the student will be able to:
- demonstrate the knowledge and skills to qualify for the General and Powerplant portion of the Federal Aviation Administration Powerplant Mechanics exams to include the written, oral and practical tests.
- demonstrate the knowledge and skills to inspect, maintain, repair, and modify reciprocating and turbine engines.

Required Program	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
AERO 310 Powerplant Theory and Maintenance	5
AERO 311 Powerplant Theory and Maintenance Applications	3
AERO 312 Powerplant Systems and Components	5
AERO 313 Powerplant Systems and Components Applications	3
AERO 330 Advanced Airframe and Powerplant Inspection	5
AERO 332 Advanced Airframe and Powerplant Inspection Applications	3
Total Units Required	**40**

Suggested Electives
AERO 120, 121, 340, 341, 350, 351, 361, 362, 363, 364, 365, 370

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement

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

The Aeronautics program is governed by regulations established by the Federal Aviation Administration. This Federal Aviation Administration (FAA) approved program fulfills all of the requirements under CFR 14, Federal Aviation Regulation part 147. Completion of this program will allow the graduate to test for the FAA Powerplant Mechanic Certificate.

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.

Career Opportunities
The department of Advanced Transportation Technology currently offers courses and/or certificate programs in Aeronautics, Flight Technology, and Non-Destructive Testing. 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.

Airframe and Powerplant Technicians are employed by major/regional airlines, certificated repair stations, fixed based operators, charter services, flight schools, corporate flight departments, agricultural aircraft operators, helicopter operations as well as government agencies and the military. Many experienced technicians opt to operate their own aviation businesses.

Enrollment Eligibility
To be eligible for enrollment in the program, the student must meet the following criteria: Transfers from another Federal Aviation Administration Part 147 approved airframe and powerplant school must provide an official transcript and catalog for evaluation by the department.

Program Costs
In addition to normal student expenses, minimal lab expenses may be incurred.

Recommended High School Preparation
English, mathematics, electronics, science, computers, and industrial shop.

Upon completion of this program, the student will be able to:
- demonstrate the knowledge and skills to qualify for the General, Airframe and Powerplant portion of the Federal Aviation Administration Airframe and Powerplant Mechanics exam to include the written, oral and practical tests.
- demonstrate the knowledge and skills to inspect, maintain, repair, and modify airframe structures.
- demonstrate the knowledge and skills to inspect, maintain, repair, and modify reciprocating and turbine engines.

Required Program	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
AERO 310 Powerplant Theory and Maintenance	5
AERO 311 Powerplant Theory and Maintenance Applications	3
AERO 312 Powerplant Systems and Components	5
AERO 313 Powerplant Systems and Components 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 Advanced Airframe and Powerplant Inspection	5
AERO 331 Advanced Structures and Systems Inspection	5
AERO 332 Advanced Airframe and Powerplant Inspection Applications	3
AERO 333 Advanced Structures and Systems Inspection Applications	3
Total Units Required	**64**

Suggested Electives
AERO 120, 121, 122, 200, 360, 361, 362, 363, 364, 365, 370

Associate in 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. See SCC graduation requirements.

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

Flight Technology

Associate in Science Degree
Certificate of Achievement

Program Information
Sacramento City College maintains an authorized two-year certificate and degree program organized to offer pilot ground instruction. The Flight Technology Program is an 18 unit, five-course program to include private pilot ground school, instrument pilot ground school, powerplant theory and airframe systems, and 2 units of elective courses from Aeronautics. Upon completion of the program the student will qualify to take the written portion of the required FAA Pilot examination. Flight training may be made available through one of our many industry partners.

Career Opportunities

The department of Advanced Transportation Technology currently offers courses and/or certificate programs in Aeronautics, Flight Technology, and Non-Destructive Testing. 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.

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

Program Costs
In addition to the normal student expenses, minimal lab expenses may be incurred.

Recommended High School Preparation
English, mathematics, electronics, science, computers, and industrial shop.

Upon completion of this program, the student will be able to:

- demonstrate the knowledge and skills to qualify for the classroom portion of the Federal Aviation Administration examination.
- demonstrate the knowledge required of a competent commercial pilot.
- demonstrate the knowledge required in the areas of meteorology, performance, weight and balance, aerodynamics, systems, and regulations.

Required Program	**Units**
AERO 120 Private Pilot, Sport Pilot, Basic Ground Instructor Ground School	3
AERO 121 Instrument Pilot/Instructor Ground School	3
AERO 310 Powerplant Theory and Maintenance	5
AERO 320 Airframe Systems and Components	5
A minimum of 2 units from the following:	2
AERO 122 Commercial Pilot Ground School, Advanced Ground Instructor (3)	
or AERO 311 Powerplant Theory and Maintenance Applications (3)	
or AERO 322 Airframe Systems and Components Applications (3)	
or AERO 370 Introduction to Aviation (3)	
or AERO 494 Topics in Aeronautics, Aviation Maintenance (0.5-4)	
Total Units Required	**18**

Associate in 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. See SCC graduation requirements.

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

Nondestructive Testing

Associate in Science (A.S.) Degree
Certificate of Achievement

Program Information
Sacramento City College maintains an American Society of Nondestructive Testing (ASNT) program. Our one-year certificate and two-year degree programs are designed to meet the classroom instructional needs of students who desire technical training to qualify for the ASNT exams.

The Nondestructive Testing Program is an 18-unit, six course program. This program covers all five of the major disciplines, to include Magnetic Particle, Liquid Penetrant, Ultrasonic, Eddy Current and Radiographic Inspection. Courses satisfy the Level I requirement for classroom training under the American Society of Nondestructive Testing.

Upon passing the appropriate ASNT examinations, the graduate is certificated to work in the field of Nondestructive Testing.

Career Opportunities
The department of Advanced Transportation Technology currently offers courses and/or certificate programs in Aeronautics, Flight Technology, and Nondestructive Testing. 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.

Sacramento City College's Certificate of Achievement prepares the student to enter the field of Nondestructive Testing and Inspection. Many industries such as Aviation, Construction, Marine and Nuclear Power plants utilize this advanced inspection technology. NDT Technicians are employed by airlines, manufacturers, repair facilities and inspection facilities as well as government agencies and the military.

Program Costs
In addition to normal student expenses, minimal lab expenses may be incurred.

Recommended High School Preparation
English, mathematics, electronics, science, computers, and industrial shop.

Upon completion of this program, the student will be able to:

- demonstrate the knowledge and skills to qualify for the classroom portion of the American Society of Nondestructive Testing, Level I Technician exams in each of the five major areas.
- demonstrate the knowledge of Magnetic Particle Inspection.
- demonstrate the knowledge of Liquid Penetrant Inspection.
- demonstrate the knowledge of Ultrasonic Inspection.
- demonstrate the knowledge of Eddy Current Inspection.
- demonstrate the knowledge of Radiographic Inspection.

Required Program	**Units**
AERO 360 Nondestructive Testing I	3
AERO 361 Nondestructive Testing II	3
AERO 362 Nondestructive Testing III	3
AERO 363 Nondestructive Testing IV	3
AERO 364 Nondestructive Testing V	3
AERO 365 Nondestructive Testing VI	3
Total Units Required	**18**

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement may be obtained by completion of the required program with grades of "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 120 Private Pilot, Sport Pilot, Basic Ground Instructor Ground School 3 Units

Prerequisite: None.
Hours: 54 hours LEC
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 be eligible to take 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

Prerequisite: None.
Hours: 54 hours LEC
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 and Instrument Flight instructor written tests.

AERO 122 Commercial Pilot Ground School, Advanced Ground Instructor 3 Units

Prerequisite: None.
Hours: 54 hours LEC
This course is an in-depth study of the principles of meteorology, aviation, navigation, communication, advanced weight and balance, aircraft structures, aircraft systems, instruments, performance, theory of flight, and Federal Aviation Regulations. This course meets the Federal Aviation Administration (FAA) requirement for Commercial Pilot and/or Advanced Ground Instructor written test.

AERO 130 Bio-Diesel for Aircraft Ground-Based Transportation 1 Unit

Prerequisite: None.
Hours: 18 hours LEC
This course will take the student through the theory of the manufacture of Bio-Diesel to include a demonstration of the actual process. The course will cover the required steps from the initial procurement of the raw materials through the storing of the finished product. The product can be utilized in diesel engines to include aviation, locomotive, automotive, marine, and stationary applications.

AERO 200 Certificated Aircraft Mechanic Preparation 1-3 Units

Prerequisite: None.
Hours: 54 hours LEC
This is a specialized course curtailed to individual student needs in cooperation with the Federal Aviation Administration (FAA). This course meets, in part, 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

Prerequisite: None.
Hours: 90 hours LEC
This Boeing 700 Series general familiarization course is designed for students desiring to become pilots, turbojet flight engineers, or mechanics on large, complex aircraft typically flown by the airline industry. All Boeing systems will be covered in detail, such as avionics, hydraulics, pneumatics, pressurization, air-conditioning electrics, fire protection, ice/rain removal and engine operation, flight performance, and take off and landing data. Weight and balance computations and emergency procedures will also be covered. This course may be taken two times for credit provided a different aircraft of the series is studied.

AERO 299 Experimental Offering in Aeronautics .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

AERO 300 General Airframe and Powerplant 5 Units

Prerequisite: None.
Advisory: Concurrent enrollment in AERO 301
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 90 hours LEC
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 and rotary wing aircraft. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 301 General Airframe and Powerplant Applications 3 Units

Prerequisite: Concurrent enrollment in AERO 300 or completion of AERO 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 180 hours LAB
This course provides skills projects related to AERO 300 as required by the Federal Aviation Administration. Topics will include sheet metal repair, welding and hardware identification. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 302 Basic Electricity and Electrical Systems 5 Units

Prerequisite: None.
Advisory: Concurrent enrollment in AERO 303
Course Transferable to CSU
Hours: 90 hours LEC
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). Minimum attendance is mandated by the Federal Aviation Administration.

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

Prerequisite: Concurrent enrollment in AERO 302 or completion of AERO 302 with a grade of "C" or better.
Course Transferable to CSU
Hours: 180 hours LAB
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. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 310 Powerplant Theory and Maintenance 5 Units

Prerequisite: None.
Advisory: Concurrent enrollment in AERO 311
Course Transferable to CSU
Hours: 90 hours LEC
This course provides instruction in reciprocating and gas turbine engine theory, overhaul, inspection, testing, and operation. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 311 Powerplant Theory and Maintenance Applications 3 Units

Prerequisite: Concurrent enrollment in AERO 310 or completion of AERO 310 with a grade of "C" or better.
Course Transferable to CSU
Hours: 180 hours LAB
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, operation and familiarization of gas turbine powerplant accessories, fire detection/protection systems, and operation of gas turbine powerplants in the test cell environment. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 312 Powerplant Systems and Components 5 Units

Prerequisite: None.
Advisory: Concurrent enrollment in AERO 313
Course Transferable to CSU
Hours: 90 hours LEC
This course provides instruction in the theory of reciprocating and gas turbine engines, related accessories including cooling, ignition, propellers, governors, and fuel metering. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 313 Powerplant Systems and Components Applications 3 Units

Prerequisite: Concurrent enrollment in AERO 312 or completion with a grade of "C" or better.
Course Transferable to CSU
Hours: 180 hours LAB
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. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 320 Airframe Systems and Components 5 Units

Prerequisite: None.
Corequisite: Concurrent enrollment in AERO 322
Course Transferable to CSU
Hours: 90 hours LEC
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 protection and detection. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 321 Airframe Structures 5 Units

Prerequisite: None.
Corequisite: Concurrent enrollment in AERO 323
Course Transferable to CSU
Hours: 90 hours LEC
This course provides instruction in aircraft sheet metal, fabric, dope, and paint processes; plastic, wood, fiberglass, honeycomb, composites, and laminated structures, assembly and rigging and landing gear systems. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 322 Airframe Systems and Components Applications 3 Units

Prerequisite: None.
Corequisite: Concurrent enrollment in AERO 320
Course Transferable to CSU
Hours: 180 hours LAB
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 diagnosis of the components and systems. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 323 Airframe Structures and Systems Applications 3 Units

Prerequisite: None.
Corequisite: Concurrent enrollment in AERO 321
Course Transferable to CSU
Hours: 180 hours LAB
This course provides projects related to the AERO 321 lectures as required by the Federal Aviation Administration to develop skills in inspecting, checking, diagnosis, servicing and repairing the components and systems. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 330 Advanced Airframe and Powerplant Inspection 5 Units

Prerequisite: Completion of AERO 300, 301, 302, 303, 320, 321, 322, and 323 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 332
Course Transferable to CSU
Hours: 90 hours LEC
This course provides the theory of the following: Advanced Airframe and Powerplant diagnosis, inspection, mechanic privileges and limitations, maintenance forms and records, maintenance publications, as well as weight and balance calculations. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 331 Advanced Structures and Systems Inspection 5 Units

Prerequisite: Completion of AERO 300, 301, 302, 303, 310, 311, 312, and 313 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 333
Course Transferable to CSU
Hours: 90 hours LEC
This course provides the theory of the following: Advanced communication, navigation and autopilot systems, landing gear systems, wheel, tire and brake assembly systems, assembly and rigging processes, dope and fabric applications, painting and protective coating applications, sheet metal repair applications, and honeycomb, plastic, wood, fiberglass, composites, and laminate structure repair. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 332 Advanced Airframe and Powerplant Inspection Applications 3 Units

Prerequisite: Completion of AERO 300, 301, 302, 303, 320, 321, 322, and 323 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 330
Course Transferable to CSU
Hours: 180 hours LAB
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 and powerplant systems of airworthy aircraft. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 333 Advanced Structures and Systems Inspection Applications 3 Units

Prerequisite: Completion of AERO 300, 301, 302, 303, 310, 311, 312, and 313 with grades of "C" or better.
Corequisite: Concurrent enrollment in AERO 331
Course Transferable to CSU
Hours: 180 hours LAB
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 331 lectures and include familiarization and operation of test equipment required for checking and testing the airframe structures and powerplant systems of airworthy aircraft. Minimum attendance is mandated by the Federal Aviation Administration.

AERO 340 Gas Turbine Engine Development I 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
This course provides instruction in the development of gas turbine powerplants to include theory of operation, application, overhaul techniques and noise reduction through laboratory projects involving engine system tear-down and test cell operation for turbo prop and helicopter turbo shaft engines.

AERO 341 Gas Turbine Engine Development II 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
This course provides continued instruction in the development of gas turbine powerplants to include theory of operation, application, overhaul techniques and noise reduction through laboratory projects involving engine system tear-down and test cell operation for turbo prop and helicopter turbo shaft engines.

AERO 350 Helicopter Rotor and Drive Systems I 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
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

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
This course provides in-depth 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. Tracking and balance adjustments will be accomplished on a running helicopter.

AERO 360 Nondestructive Testing I 3 Units
Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
This introductory course explains the basic principles of material manufacturing processes, discontinuities, and defects as related to the major nondestructive testing methods. This course is an introduction to Level I Magnetic Particle, Liquid Penetrant, Eddy Current, Ultrasonic, and Radiographic courses. This course will give the student an overview of Nondestructive Testing disciplines with regard to identifying defects and proper Nondestructive Inspection (NDI) application.

AERO 361 Nondestructive Testing II 3 Units
Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This Level I classroom training covers the basic principles of material manufacturing processes, discontinuities, and defects as related to liquid penetrant inspection that will allow the student to identify defects in proper Nondestructive Inspection (NDI) application. This course is one of five recognized Nondestructive Testing disciplines used to identify defects in aviation and industrial applications. Minimum attendance is mandated by The American Society of Nondestructive Testing.

AERO 362 Nondestructive Testing III 3 Units
Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This Level I classroom training covers the basic principles of material manufacturing processes, discontinuities, and defects as related to Magnetic Particle Inspection that will allow the student to identify defects in this application. This course is one of five recognized Nondestructive Testing disciplines used to identify defects in aviation and industrial applications. Minimum attendance is mandated by the American Society of Nondestructive Testing.

AERO 363 Nondestructive Testing IV 3 Units
Prerequisite: AERO 361 and 362 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This Level I classroom training covers the basic principles of Ultrasonic Nondestructive testing methods that will allow students to identify defects in this application. This course is one of five recognized Nondestructive Testing disciplines used to identify defects in aviation and industrial applications. Minimum attendance is mandated by the American Society of Nondestructive Testing.

AERO 364 Nondestructive Testing V 3 Units
Prerequisite: AERO 361 and 362 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This Level I classroom training covers the basic principles of the Eddy Current Nondestructive testing method that will allow students to identify defects in this application. This course is one of five recognized Nondestructive Testing disciplines used to identify defects in aviation and industrial applications. Minimum attendance is mandated by the American Society of Nondestructive Testing.

AERO 365 Nondestructive Testing VI 3 Units
Prerequisite: AERO 361 and 362 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This Level I classroom training covers the basic principles of the Radiographic Nondestructive testing method that will allow students to identify defects in this application. This course is one of the five recognized Nondestructive Testing disciplines used to identify defects in aviation and industrial applications. Minimum attendance is mandated by the American Society of Nondestructive Testing.

AERO 370 Introduction to Aviation 3 Units
Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This introductory survey course is designed for potential career aviation professionals. This course explains the fundamentals of aircraft and spacecraft flight as well as the history and development of the aviation industry. A minimum of one on-site visit to a local airport is recommended for the completion of this course.

AERO 371 Aviation Weather 2 Units
Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC
This aviation-related meteorology course is designed for pilots, flight crew members, and aircraft dispatchers. 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
Prerequisite: None.
Course Transferable to CSU
Hours: 72 hours LEC
This is a specialized course developed in conjunction with industry partners to address emerging industry training needs. This course can be taken up to four times for credit provided there is no duplication in subject matter.

AERO 495 Independent Studies in Aeronautics 1-3 Units
Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC; 162 hours LAB
This is an independent studies course in Aeronautics. Related projects will be assigned under the supervision of an Aeronautics faculty member and a selected industry partner from the local community. This course may be taken up to four times for credit for a maximum of 12 units.

AERO 498 Work Experience in Aeronautics 1-4 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 72 hours LEC; 216 hours LAB
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 aviation. Course content will include an understanding the application of the student's education as it relates to the workforce. The student will work as an aircraft mechanic helper for one of the Aeronautics department's industry partners. The work could include, but is not limited to, line maintenance, component overhaul, aircraft maintenance, and rebuilding. This course may be taken up to four times for credit for a maximum of 16 units.

AERO 499 Experimental Offering in Aeronautics .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Flight Technology (FLTEC)

FLTEC 294 Topics in Aeronautics, Flight Technology .5-4 Units

Prerequisite: None
Hours: 9-72 hours LEC
This is a specialized course developed in conjunction with industry partners to address emerging training needs. This course can be taken up to four times for credit provided there is no duplication in subject matter.

Allied Health AH

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

(916) 558-2271

AH 100 Professional Ethics of Health Team Members 1 Unit

Prerequisite: None.
Hours: 18 hours LEC
This course is an introduction to professional and ethical behaviors of health 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

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

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

Prerequisite: None
Hours: 9 hours LEC
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 that serve the older populations' health and dental needs is also included.

AH 106 Communication for Allied Health Careers 2 Units

Prerequisite: None.
Hours: 36 hours LEC
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

Prerequisite: None
Hours: 54 hours LEC
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.

AH 111 Strategies for Success in Allied Health Programs 3 Units

Prerequisite: None
Hours: 54 hours LEC
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/nonverbal), health practices in different cultures and basic techniques in personal health maintenance.

AH 112 Strategies for Student Success in Health Occupations 3 Units

Prerequisite: None.
Advisory: ENGRD 110, ENGWR 100, ESL 114, ESLR 320, and ESLW 320; or placement through the assessment process.
Hours: 54 hours LEC
This course introduces the student to vocational opportunities in health care. The course provides realistic and useful strategies to enhance student success in reaching career goals associated with health occupations. Students will gain the knowledge and skills to determine a career path based on a realistic understanding of specific health occupations.

AH 295 Independent Studies in Allied Health 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

AH 299 Experimental Offering in Allied Health .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

AH 301 Health Care in a Multicultural Society 3 Units

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 100 with grades of "C" or better.
General Education: AA/AS Area VI
Course Transferable to CSU
Hours: 54 hours LEC
In all health professions and settings, culture is factor that affects communication, compliance, and outcome. For best practice, cultural competency is a clinical skill that improves the relationship between patient and provider, and is a skill desired by health care organizations. This course is designed to establish fundamental elements of cultural competency. Topics include cultural self-awareness and sensitivity, exploration of cultural beliefs about health and illness, health traditions and rituals, folk medicine, communication strategies, the use of language interpreters, and the influence of family roles.

AH 310 Sign Language for Health Care Personnel and Health Care Students 1 Unit

Same As: SILA 336
Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
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 1 Unit

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
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.

AH 495 Independent Studies in Allied Health 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

AH 499 Experimental Offering in Allied Health .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Anthropology ANTH

Associate in Arts Degree

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

Anthropology
Associate in Arts Degree

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

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.

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. See SCC graduation requirements.

Anthropology (ANTH)

ANTH 300 Physical Anthropology 3 Units
Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better
General Education: AA/AS Area IV; CSU Area B2; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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
Prerequisite: ANTH 300 or 480 or concurrent enrollment in ANTH 300 or 480. ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area IV; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LAB
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.

ANTH 310 Cultural Anthropology 3 Units
Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D1; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, field work and theory. Topics include the nature of culture, subsistence methods, religion, linguistics, trade and economic systems, arts, kindship, marriage and family systems, technology, and change.

ANTH 315 Cultures in Focus 3 Units

Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D1; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course examines American and non-Western/Third World cultures with emphasis on development problems. The historical and cultural context of development will be examined. The technological changes are examined as they impact ideological aspects of culture. Problems of overpopulation, underemployment and famine will be studied.

ANTH 317 Cultures of Southeast Asia 3 Units

Prerequisite: None.
Advisory: Completion of ENGWR 100 or ESLW340 with a grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D1; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area V(b); CSU Area D1; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
Course Transferable to CSU
Hours: 27 hours LEC
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. This class may be repeated once for credit.

ANTH 330 Magic, Witchcraft, and Religion 3 Units

Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area D1; IGETC Area 3B; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This is a cross-cultural study of the forms and functions and 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 beliefs and rituals in human life.

ANTH 332 Native Peoples of California 3 Units

Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D1; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 meets the SCC Multicultural Graduation Requirement for comparative examination of diverse culture groups in the U.S. 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

Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D1; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introductory survey of traditional Native American societies. The course will describe our understanding of the peoples and cultures of 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 Native American's current position in American society will be included. A field trip may be optional.

ANTH 341 Introduction to Linguistics 3 Units

Prerequisite: ENGWR 50 and ENGWR 59 or ESLW 310 and ESLR 310 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D1; IGETC Area 4A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B2; IGETC Area 5B
Enrollment Limitation: Eligibility for admission to the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D1; IGETC Area 4A
Enrollment Limitation: Eligibility for admission to the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 including 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

Prerequisite: Determined by topic.
Course Transferable to CSU
Hours: 54 hours LEC
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 can earn from 1-3 units. Students should consult the schedule of classes for the specific topic.

ANTH 495 Independent Studies in Anthropology 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

ANTH 499 Experimental Offering in Anthropology .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
See Experimental Offerings

Art ART, ARTH

Associate in Arts Degree

Art, Degree

Art History, Degree

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Art
Associate in Arts Degree

Program Information
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 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.

Upon completion of this program, the student will be able to:
- demonstrate increased sensitivity to the visual world and its aesthetic traditions and assess such visual traditions.
- demonstrate a basic skill in communicating experiences and ideas visually by designing and producing a variety of work in the visual arts.
- critique and analyze subject matter in the visual arts and demonstrate appropriate performance skills to treat that subject matter with a scope and intensity beyond the secondary level.
- compare, contrast, and assess the historical methods by which people have responded to themselves and the world around them.
- develop an aesthetic understanding and the ability to make value judgments within the context of cultural and artistic creations.

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**

Suggested Electives
ANTH 300, 310, 320; ART 443, COMM 316, 325; BUS 498, BIOL 100, BUS 300, CHEM 336, ENGLT 345, 400; ENGWR 300, HIST 300, 302, 310, 311; HUM 332, PHIL 352, SOC 330

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.

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 History
Associate in Arts Degree

Program Information
The Art History major is designed to prepare students for further study in the history of art leading to the Bachelor's, Master's, and/or the Ph.D. in Art History. Art Historians with advanced degrees are college instructors, museum and gallery directors, curators, or art critics and can work for public and private collectors.

Career Opportunities
Art historians with undergraduate degrees are placed as registrars, preparators, and curatorial staff in art museums and galleries; they can also be employed as art critics in mass media publications, such as newspapers and magazines. An advanced degree allows an art historian a wider range of possible career applications, including museums directorships, curators, instructors, preservationists, researchers, and auction house personnel.

Upon completion of this program, the student will be able to:
- assess and evaluate the contributions of artists throughout history.
- identify and evaluate works of art or architecture according to their appropriate style and time frame.
- analyze and critique art and architecture within the context of their functions and meanings.
- research and assess theoretical information concerning the meanings and purposes of art and architecture.
- demonstrate an understanding of the history of cultures and civilizations and how art and architecture is a reflection of that history.

Required Program	Units
ARTH 304, Ancient Art	3
ARTH 306 Medieval Art	3
ARTH 308 Renaissance Tradition in Art	3
ARTH 310 Modern Art	3
ARTH 320 Cultural Survey of World Art (3)	3
or ARTH 324 Art of the Americas (3)	
or ARTH 328 Survey of African Art (3)	
or ARTH 332 Asian Art (3)	
ART 300 Elementary Drawing and Composition	3
HIST 300 History of Western Civilization (3)	3
or HIST 302 History of Western Civilization (3)	
or HIST 307 History of World Civilizations to 1500 (3)	
or HIST 308 History of World Civilizations, 1500 to Present (3)	
or HIST 310 History of the United States (3)	
or HIST 311 History of the United States (3)	
or HIST 344 Survey of California History: A Multicultural Perspective (3)	
or HIST 380 History of the Middle East (3)	
A minimum of 6 units from the following:	6
ART 320 Design: Fundamentals (3)	
or ART 332 Oil Painting (3)	
or ART 370 Three Dimensional Design (3)	
or ART 390 Ceramics (3)	
Total Units Required	**27**

Suggested Electives
ANTH 320, 324; ARTH 312, CHEM 336, COMM 316, ENGLT 400, ENGWR 302, HIST 307, 308, 360, 370, 371; HUM 300, 310, 332, 352; PHIL 330, SOCSC 350

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.

Art (ART)

ART 121 Welding for the Artist 3 Units

Prerequisite: MIT 100 with a grade of "C" or better.
Hours: 36 hours LEC; 54 hours LAB
This course will cover metal sculpture techniques, design principles, and materials used for sculpture on functional and non-functional art forms and on ferrous and non-ferrous metals. Techniques taught will include the major welding and cutting processes-SMAW, MIG, TIG, plasma, gas welding and cutting. Safety will be an integral part of the course. 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

Prerequisite: None.
General Education: AA/AS Area I; CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course includes problems in observation and the translation of this experience into graphic terms by exploration of the formal elements of art (line, shape, volume, space, texture, light, and shadow). Students will also be introduced to historical and contemporary drawing styles. This course is a basic requirement for all art students. A field trip is required.

ART 301 Digital Drawing and Composition 3 Units

Prerequisite: None.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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. (Formerly ART 450)

ART 302 Elementary Drawing and Composition 3 Units

Prerequisite: ART 300 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course expands on the drawing skills presented in ART 300 and covers more complex problems in observation, personal expression, and the formal exploration of composition. Students investigate subject, form, and content through color and the use of materials and techniques. A field trip is required.

ART 304 Figure Drawing and Composition 3 Units

Prerequisite: ART 300 with a grade of "C" or better or equivalent determined through portfolio review.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course offers the study of the aesthetic form of the human figure by analyzing, drawing, and composing its structural elements in a representational manner with respect to line, tone, shape, and color. Models draped and/or undraped will be used as subjects. A variety of media will be introduced in the exploration of drawing of the human form. A field trip to a local gallery is required.

ART 305 Figure Drawing and Composition 3 Units

Prerequisite: ART 304 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This is a combined lecture and lab course where the human figure is studied directly and in historical context. Students will study the structure, proportion, and relationship of the undraped/draped human figure to compositional space and color. Students will study great works of figurative-based art and will practice subjective responses to a multitude of aesthetic theories. A field trip to an art museum or gallery is required for this course.

ART 307 Rendering 3 Units

Prerequisite: ART 300 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course covers drawing and painting techniques which results in the accurate representation of diverse subject matter. A field trip is required.

ART 310 Pen and Ink Drawing 3 Units

Prerequisite: None
Advisory: ART 300 with a grade of "C" or better or equivalent.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course emphasizes the fine art of black and white line and mass drawing using a variety of pen and ink, brush and ink techniques, and materials. Topics may include: 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. A field trip is required.

ART 312 Portrait Drawing 3 Units

Prerequisite: ART 300 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to and exploration of the human image as the subject of art. Emphasis is 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. A field trip to an art gallery or museum is required.

ART 313 Portrait Drawing: Abstract 3 Units

Prerequisite: ART 300 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course gives portrait drawing students an opportunity to focus on abstract and expressive ways of representing the human face. Emphasis is on the human image as subject and content. Students will be working within the context of established contemporary portraiture practices and techniques. A field trip to an art gallery, museum, and/or artist's studio is required.

ART 320 Design: Fundamentals 3 Units

Prerequisite: None.
General Education: AA/AS Area I; CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the formal aspects of line, shape, tone, color, and theories of their organization and composition in works of art. Historic and contemporary examples of design will also be studied within the constructs of students' projects. This course is a basic requirement for all art students. A field trip to an art museum or gallery is required.

ART 321 Graphic Design in the Fine Arts 3 Units

Prerequisite: None.
Advisory: ART 300 and ART 320 with grades of "C" or better, or the equivalent course work at another college, or evaluation of professional work determined by a review of the applicant's portfolio.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course emphasizes the aesthetic principles of graphic design (layout, lettering, illustration, color, and design) as they are used in fine art. A field trip to an art gallery or museum is required for this course.

ART 322 Design: Image and Content 3 Units

Prerequisite: None
Advisory: ART 320 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course involves the study of the formal elements of line, shape, tone, color, and theories of their organization and composition. Emphasis is on the expressive aspect of subject and content and the influence of materials and techniques on form. A field trip to a museum and/or gallery is required.

ART 323 Design: Color Theory 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course covers studio problems in the use and understanding of color and its application to works of art. This course is appropriate for a variety of color-sensitive classes or fields of interest. Emphasis is on color relationships, color interactions, and color mixing. Color is explored from an objective (optical) as well as a subjective (interpretative) point of view. A field trip is required.

ART 324 Collage and Assemblage 3 Units

Prerequisite: None.
General Education: CSU Area C1
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course investigates the alteration and creation of a dimensional surface with found and constructed materials. Topics on the history of collage and assemblage and the application of historical and contemporary techniques and concepts provide the impetus for production of works of art. Development of a personal visual language is fundamental to this course. A field trip to an art gallery or museum is required.

ART 325 Introduction to Graphic Design 3 Units

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better or the equivalent course work at another college, or evaluation of professional work determined by a review of the applicant's portfolio.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course emphasizes the aesthetic principles of graphic design (layout, lettering, illustration, color, and design) as they are used in fine art. A field trip is required for this course.

ART 332 Oil Painting 3 Units

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the medium and materials used in oil painting. Along with the methods and traditions of painting images, color, pattern, line, texture, light, space, style and techniques and their application in both historical and contemporary works are thoroughly investigated. This course may be taken twice for credit.

ART 334 Acrylic Painting 3 Units

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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. A field trip is required.

ART 335 Acrylic Painting: Abstract 3 Units

Prerequisite: None.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the mediums and materials used in acrylic painting with an emphasis on abstract subject matter, style, and content. A field trip is required.

ART 336 Watercolor Painting 3 Units

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the medium and materials used in watercolor painting. 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. A field trip to a gallery or museum is required.

ART 337 Intermediate Watercolor Painting 3 Units

Prerequisite: ART 336 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This is an intermediate watercolor course. It includes an in-depth study of contemporary methods and concepts in transparent watercolor. Emphasis is given to different approaches to watercolor, as well as composition, technical problems and solutions, and individual style development. Each semester different artists are discussed to illustrate concepts and techniques. A field trip to a museum or gallery is required.

ART 361 Printmaking: Survey 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is a beginning printmaking course, which may include relief (wood and linoleum), intaglio (etching and drypoint), stencil (silk-screening), and monoprint processes. A field trip to a gallery or museum is required.

ART 367 Printmaking: Book Arts 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the studio theory and practice of the books arts. Students will explore the book as a format for presenting unique ideas through physical structures. Students will learn the process of basic book construction, while developing understanding of the artist's book as concept. Book forms may include altered books, memory books, folded, stab, sewn bindings, sculptural boxes, and portfolios. Topics include paste papers and the use of image transfers, collage, prints, and mixed media. Also covered is the history of traditional and contemporary books and manuscripts. A field trip to a gallery or museum is required.

ART 368 Printmaking: Etching and Relief 3 Units

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an intoduction to printmaking. Emphasized are intaglio (etching) and relief processes. Intaglio may include line etching, aquatint, soft ground, drypoint, engraving, and monotype. Materials in relief printing may include linoleum or woodblock. This course may be taken twice for credit. A field trip to a museum or gallery is required.

ART 369 Printmaking: Lithography and Silk Screen 3 Units

Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to lithography and silk screen printing. Lithography may involve the printing of hand drawn images on materials such as stone, metal plate, and other planographic surfaces. The techniques used in silk screen printing include drawn and photo established stencils printed on both paper and fabric. A field trip to a gallery or museum is required.

ART 370 Three Dimensional Design 3 Units

Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320; with a grade of "C" or better.
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to Three Dimensional Design/Sculpture. Students will learn basic elements of line, plane, volume, and color through research, exercises, and projects. Students will develop a visual and verbal vocabulary and problem solving skills to express ideas and enhance projects. Lectures will include information and visual images of Western and non-Western art and movements, as well as historical and cultural issues relating to art and design. One field trip to a museum or gallery will be required. This course may be taken twice for credit.

ART 372 Sculpture 3 Units

Prerequisite: ART 370 with a grade of "C" or better or portfolio review for skills in basic sculpture.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is meant to follow ART 370, focusing on complex sculptural methods and ideas. Students will learn additional technical skills, including casting, additive, and reductive/carving sculptural methods. Students will develop a visual and verbal vocabulary and problem solving skills to enable ideas and enhance projects. This class will focus heavily on historical and cultural issues relating to art and design, as well as the students' own conceptual development. One field trip to a museum or gallery will be required.

ART 373 Intermediate Sculpture 3 Units

Prerequisite: ART 372 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is meant to follow ART 372, Sculpture, continuing the practice of more complex sculptural methods and ideas. 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 374 Sculpture Lab 1-2 Units

Prerequisite: ART 373 with a grade of "C" or better
Corequisite: ART 373
Course Transferable to CSU
Hours: 108 hours LAB
This course offers laboratory experience to assist completion of complex sculpture projects. The course focuses on the development of a personal creative vision, furthering technical skills and complex problem-solving.

ART 375 Figure Sculpture 3 Units

Prerequisite: ART 300 with a grade of "C" or better
Advisory: ART 304 and ART 370 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course introduces figure sculpture, using the live nude model as a reference. It will develop an understanding of the human form as it relates to both modern and traditional sculpture. These concepts will be developed by making studio projects using a variety of sculpture materials. The projects will combine new understanding of human form with imagination, for a more complete expression of technique and creativity. A field trip to a museum or gallery is required.

ART 380 Techniques in Metal Design 3 Units

Prerequisite: None.
General Education: CSU Area C1
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course explores individual research and practice in small metals working in two and three dimensional forms. The elements of metal design and form will be applied to small metals. Techniques may include casting, mold making, brazing, soldering, welding, and laminating. One field trip to an art gallery or museum is required.

ART 381 Intermediate Techniques in Metal Design 3 Units

Prerequisite: ART 380 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an intermediate-level course that offers individual exploration and research in small metals working in two and three-dimensional forms. The course involves a concentrated study of intermediate work in elements of metal design and form, which may include enameling, engraving, laminating, lapidary, gemstone setting, mold making, and assembling design parts. Students' skill will be enhanced by supervised repetition and practice. A field trip to an art gallery or art museum is required.

ART 384 Metal Design: Emphasis In Casting 3 Units

Prerequisite: None.
Advisory: ART 380 or 381 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course covers historical and contemporary approaches to centrifugal casting, wax patterns, and the aesthetic aspects of metal casting for small scale sculpture and jewelry. Basic methods and techniques for wax working, kiln burnout, centrifugal casting, and metal finishing will be emphasized. A field trip to an art gallery, museum, or artist's studio will be required.

ART 385 Metal Arts Lab 1-2 Units

Prerequisite: None.
Corequisite: ART 380, 381, or 384 or a grade of "C" or better in one of the corequisite courses in a previous semester.
Course Transferable to CSU
Hours: 108 hours LAB
This course offers laboratory experience to assist students in completing complex metal art projects. The course focuses on the development of a personal creative vision furthering technical skills and complex problem-solving. This class may be repeated up to a maximum of six units.

ART 390 Ceramics 3 Units

Prerequisite: None.
General Education: AA/AS Area I; CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This is an introductory course devoted to the history, practice, experimentation, and refinement in the art of ceramics. This course will include the historic and modern traditions of ceramics, hand construction methods, glaze fundamentals, and beginning wheel throwing. One field trip to an art gallery, art museum or artist's studio is required.

ART 391 Intermediate Ceramics 3 Units

Prerequisite: ART 390 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This is an intermediate level course devoted to practice experimentation and refinement in the art of ceramics. This course will be devoted to intermediate work in hand building, sculpture techniques, wheel throwing, kiln operations, and glaze calculations. A field trip is required.

ART 392 Ceramic Lab 1-2 Units

Prerequisite: None.
Corequisite: ART 390 or ART 391 or ART 400
Course Transferable to CSU
Hours: 108 hours LAB
This course offers laboratory experience to assist students in completing complex ceramic projects. The course focuses on the development of a personal creative vision, furthering technical skills, and complex problem solving. This course may taken twice for credit.

ART 394 Wheel Thrown Ceramics, Beginning 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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 form of ceramics known as Raku. Students at all skill levels in ceramics, from introductory through advanced, may take the course. One field trip to an art museum or gallery is required.

ART 395 Wheel Thrown Ceramics, Intermediate 3 Units

Prerequisite: ART 394 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an intermediate class in wheel thrown ceramics. The course will provide students with opportunities to further explore the technical and creative processes of ceramic pottery-making, such as Raku and primitive firing processes and experimentation of different surface treatments. A field trip to a museum or gallery is required for this course.

ART 396 Wheel Thrown Ceramics, Advanced 3 Units

Prerequisite: ART 394 and 395 with grades of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an advanced class in wheel thrown ceramics. The course will provide students with individual approaches to create their own unique pottery forms. Emphasis will be placed on more aesthetic approaches to pottery-making and thrown sculptural forms. Students will be able to express individual artistic concepts and ideas through pottery forms using various advanced ceramic techniques, which include glazing, firing, and surface treatment.

ART 400 Clay Sculpture 3 Units

Prerequisite: None.
Advisory: ART 300 with a grade of "C" or better.
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This is an introductory lab course in ceramics devoted to three dimensional and relief sculptural forms. There will be experimentation in combining clay and other media. A field trip to an art museum or gallery is required.

ART 404 Intermediate Clay Sculpture 3 Units

Prerequisite: ART 400 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an intermediate class in ceramic sculpture techniques and methods. The course will include glazing, surface treatment, and various firing processes used in clay sculpture. Focus will be placed on in-depth examination of contemporary ceramic sculpture and three- dimensional design. A field trip is required.

ART 430 Art and Children 3 Units

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 100 with a grade of "C" or better
General Education: AA/AS Area I
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course introduces the use of tools, media, and process for studio activity in the K-12 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 various methods and approaches to teaching visual art.

ART 440 Artists' Materials and Techniques 3 Units

Prerequisite: None.
General Education: AA/AS Area I
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the general area of artists' materials and techniques in both contemporary and historical contexts. Included are the use of tools in construction of painting supports and techniques in matting, framing, and art display. Pigment, composition study and the appreciation of historical, traditional, and modern techniques in two and three dimensional media are also emphasized. One field trip is required.

ART 443 Art Gallery Operations 3 Units

Prerequisite: None
Advisory: ARTH 300 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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, participation in staffing and docent activities, and gallery and student outreach programs. A field trip to a museum or gallery is required.

ART 445 Art Gallery Operations 3 Units

Prerequisite: ART 443 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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, lighting techniques, inventory, maintaining a permanent art collection, conservation techniques, participation in staffing and docent activities, and gallery and student outreach programs. Second-semester students do advanced studies and work on campus exhibitions, community outreach programs, and the SCC Permanent Art Collection. Two field trips are required for this class.

ART 446 Portfolio Preparation 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed for students who are interested in the creation or revision of a portfolio in order to gain entrance to galleries as an exhibiting artist. Emphasis is on photographing, matting, and framing art, as well as preparing artists' statements, resumes, brochures, and business cards. A field trip to a gallery or museum is required.

ART 494 Topics in Art .5-4 Units

Prerequisite: None
Advisory: ART 300 and ART 320.
Course Transferable to UC/CSU
Hours: 54 hours LEC; 162 hours LAB
This course is designed to give students an opportunity to study topics in art not included in current course offerings. This course may be taken four times for credit providing there is no duplication of topics.

ART 495 Independent Studies in Art 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members, and students. Independent Studies in Art offers students a chance to do research and/or experimentation that is more typical of advanced studies in the studio arts.

ART 498 Work Experience in Art 1-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 48 hours LEC; 72 hours LAB
This course involves 12 hours lecture and 18 hours of art-related work experience for one unit; 12 hours of lecture and 18 hours of art-related work experience can be scheduled for each additional unit. The course may be repeated four times when there is new or expanded learning on the job.

ART 499 Experimental Offering in Art .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
This course will be an experimental offering on topics not yet covered by current Art courses or an offering that addresses topics as they arise, such as those which relate to a new media or technique. Courses will be structured around either a specific technique (such as "performance art" or "calligraphy for beginners") or a specific set of projects ("Calligraphic portfolio" or "Digital images for your portfolio"). This course can be repeated for credit four times as long as there is no duplication of topics.

Art History (ARTH)

ARTH 300 Introduction to Art 3 Units

Prerequisite: None.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course emphasizes the history, sources, techniques, and problems of art. Included are illustrated lectures, readings, and discussions on the various manifestations of art in cultures throughout the world. This course is recommended as a basis for the understanding of art. A field trip is required.

ARTH 302 Art: Stone Age Through the Middle Ages 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to the origin and development of Medieval art and architecture, including the Early Christian, Byzantine, Celtic, Islamic, Romanesque, and Gothic contributions. Comparisons are made with other traditions.

ARTH 307 Italian Renaissance Art 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to CSU
Hours: 54 hours LEC
This course introduces the visual arts and architecture of Italy in the Early Modern period, from duecento (13th century) through cinquecento (16th century). Topics include the relationship between the visual arts and culture and artists and their works from the periods and styles known as the Proto-Renaissance, Renaissance, High Renaissance, and Mannerism. Relationships between Italy and other cultures, including New World civilizations, are also made.

ARTH 308 Renaissance Tradition in Art 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 Rococo 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

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course covers 19th and 20th century art forms including painting, sculpture, and architecture in Europe and America. Styles discussed will include Impressionism, Expressionism, Cubism, and Abstract Expressionism. Emphasis is on 20th century art to 1980. A field trip to an art museum or art gallery is required.

ARTH 312 Women in Art 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a survey of art made by and for women from the Middle Ages to the present. Topics include the art of women from both European and non-European cultures. A field trip is required.

ARTH 313 History of Western Architecture: Prehistoric to Renaissance 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or 302 ; with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course addresses the history of Western architecture from c. 2500 B.C.E. to c. 1500. Subjects covered include prehistoric European architecture and architectural monuments, architecture in the ancient world, which includes the Egyptian, Greek, and Roman cultures, and the great architecture of the European Romanesque and Gothic traditions. Architecture will be investigated for the ways in which it reflects the philosophical, cultural, and aesthetic expressions of civilizations. A field trip to view local architectural is required.

ARTH 314 History of Western Architecture: Renaissance to Modern 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or 302 ; with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course addresses the history of architecture in the Western world from c. 1400 up to the Modernist period, c. 1900. The course covers Renaissance, Baroque, Rococo, Neoclassical, and 19th century architecture in Europe and America, and will focus on the functions and meanings of architecture within Western culture. A field trip to view local architecture is required.

ARTH 318 History of American Art 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I
Course Transferable to CSU
Hours: 54 hours LEC
This course covers art in America from c. 1600 to the present day. Lecture topics include Native American art and architecture prior to the arrival of Europeans, Colonial and Early American art and architecture, 19th century landscape, portraiture, and history paintings, and the rise of American art centers in the 20th century. The course emphasizes the variety of cultures in America, the breadth of American social ideals, and their expressions in art and architecture. A field trip to an art museum is required.

ARTH 320 Cultural Survey of World Art 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 a required field trip.

ARTH 324 Art of the Americas 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course includes the study of the indigenous arts and artists of the Americas. Emphasis is on the Pre-Contact peoples of Mesoamerica and South America, such as the Aztec, Maya, and Inca cultures, and their contributions to colonial and modern art forms.

ARTH 325 Native American Art History 3 Units

Prerequisite: None.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to the art and culture of Native American peoples. It will include the native peoples of the Arctic and Subarctic regions, the Northwest Coast, the Eastern Woodlands, including the Iroquois Confederacy, the Plains, the Southwest, and California. Contemporary Native American art will also be discussed. Comparisons between individual Native American cultures will be drawn, as well as comparisons between Native and Eurocentric cultures.

ARTH 328 Survey of African Art 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course emphasizes the art of the Black person in America, including the African roots of such art, its background in colonial and 19th century America, the Harlem Renaissance in the 1920's, and art in the service of politics in contemporary African American culture.

ARTH 332 Asian Art 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introductory art survey of the arts of East and Southeast Asian, including India, China, Korea, and Japan. It features discussion of architecture, sculpture, painting, and other significant art forms from Neolithic to modern times. The contributions of East Asian art to Western aesthetics are discussed; comparisons are also made between individual Eastern cultures and other non-western cultures.

ARTH 334 International Contemporary Art 3 Units

Prerequisite: ARTH 300 or 310 with a grade of "C" or better
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

ARTH 484 Ancient Art-Honors 3 Units

Prerequisite: None.
General Education: AA/AS Area I; CSU Area C1
Enrollment Limitation: Eligibility for admission to the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. 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 art historical analyses and one research paper.

ARTH 486 Medieval Art-Honors 3 Units

Prerequisite: None.
Advisory: ENGWR 301 or ENGWR 302 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1
Enrollment Limitation: Eligibility for the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to the origin and development of Medieval art and architecture, including the Early Christian, Byzantine, Celtic, Islamic, Romanesque, and Gothic contributions. A field trip is required. Comparisons are made with other traditions. 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 art historical analyses and one research paper.

ARTH 487 Renaissance Art-Honors 3 Units

Prerequisite: None.
General Education: AA/AS Area I
Enrollment Limitation: Eligibility for admission to the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Mannerist, Baroque, and Rococo styles are also covered. Comparisons are also made with other traditions. 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 art historical analyses and one research paper.

ARTH 494 Topics in Art History .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 162 hours LAB
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.

ARTH 495 Independent Studies in Art History 1-3 Units

Prerequisite: None.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members, and students. Independent Studies in Art History offers students a chance to do research that is more typical of students in advanced art history courses.

ARTH 499 Experimental Offering in Art History .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course will be an experimental offering on topics not yet covered by current Art History courses or an offering that addresses topics as they arise, such as those which relate to a current art exhibit. Courses will be structured around either a specific culture ("Navajo Textiles") or a specific time period ("Quattrocento Art in Europe"). Individual course descriptions will be included in the catalog. Students may repeat the course four times for credit as long as there is no repetition of topics.

Astronomy ASTR

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

ASTR 310 The Solar System 3 Units

Prerequisite: None.
Advisory: MATH 34 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Students enrolled in this class will have the opportunity to attend astronomy related off-campus activities, such as star parties.

ASTR 320 Stars, Galaxies, and Cosmology 3 Units

Prerequisite: None.
Advisory: MATH 34 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Students enrolled in this class will have the opportunity to attend astronomy related off-campus activities, such as star parties.

ASTR 330 Introduction to Astrobiology 3 Units

Prerequisite: None.
Advisory: MATH 34 with a grade of "C" or better.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Corequisite: ASTR 310 or ASTR 320
Advisory: MATH 34 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LAB
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. Students enrolled in this class will have the opportunity to attend astronomy related off-campus activities, such as star parties.

ASTR 435 Astronomy Frontiers 3 Units

Prerequisite: ASTR 310 (The Solar System) or 320 (Stars, Galaxies, and Cosmology) with a grade of "C" or better
Advisory: MATH 34 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This is a continuation course for students of ASTR 310 and/or ASTR 320 who want to explore the cutting edge of astronomical research. The topics covered will be based on the latest astronomical discoveries and will include such things as black holes, relativity and warped space-time, dark matter, cosmology, quasars, gravitational waves, and the search for extraterrestrial life. Emphasis will be placed on how astronomers use science to understand the Universe and the provisional nature of science.

ASTR 494 Topics in Astronomy .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
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 which are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.

ASTR 495 Independent Studies in Astronomy 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 between among college, faculty member, and student(s).

ASTR 499 Experimental Offering in Astronomy .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Experimental Offerings

Biology BIOL

Associate in Science Degree

Field Ecology, Certificate of Achievement

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

Biology
Associate in Science Degree

Program Information
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.

Career Opportunities
The major is designed to meet some of the common lower-division requirements for a major in Biology.

Note: Students planning to transfer to four-year institutions are advised to meet with a counselor for general education requirements.

Upon completion of this program, the student will be able to:
- use the scientific method to pose questions and test hypotheses about the natural world.
- evaluate the design, analysis, and interpretation of scientific experiments.
- demonstrate an understanding of the process of biological evolution by the mechanism of natural selection.
- use and understand biological laboratory techniques and safety protocols.
- recognize and define a core set of biological terms and principles.
- compile and analyze data generated through experimentation.

Required Program	**Units**
CHEM 400 General Chemistry (5)	5
or CHEM 305 Introduction to Chemistry (5)	
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
These eight (8) units may be obtained by completion of any biology courses offered at Sacramento City College, including the ones not taken from the list above, or equivalent courses from other colleges or universities.	
Total Units Required	**23**

Associate in 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. See SCC graduation requirements.

Field Ecology
Certificate of Achievement

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.

Upon completion of this program, the student will be able to:
- demonstrate the basic principles of ecology particularly in the context of field oriented biology.
- identify flora and fauna of the region.
- assess ecosystem evaluation methods and demonstrate competence in ecosystem analysis methodologies.
- examine the regulatory processes and agencies involved with environmental regulations at the local, state, and federal levels.
- understand the evolutionary process and its role in ecosystems.

Required Program **Units**

BIOL 305 Natural History 4
BIOL 320 Field Botany 3
BIOL 360 Environmental Regulations 3
BIOL 362 Field Methods in Ecology 3
Subtotal Units **13**

Pathway 1

BIOL 412 Plant Biology (5) 5
or BIOL 422 Animal Biology (5)
A minimum of 5 units from the following: 5
BIOL 323 Ethnobotany (4)
BIOL 330 Natural History of Insects (3)
BIOL 332 Introduction to Ornithology (2)
BIOL 350 Environmental Biology (3)
BIOL 364 Restoration Ecology (2)
BIOL 370 Introduction to Marine Environment (4)
BIOL 390 Natural History Field Study (0.5 - 4)
BIOL 494 Topics in Biology (0.5 - 4)
GEOG 330 Introduction to Geographic Information Systems (3)
GEOG 332 Introduction to Desktop GIS (2)
GEOG 333 Intermediate Desktop GIS (2)
GEOL 345 Geology of California (3)
CHEM 320 Environmental Chemistry (4)
BIOL 352 Conservation Biology at ARC (4)
Pathway 1 Units: 10
Total Units Required **23**

Pathway 2

A minimum of 10 units from the following: 10
BIOL 323 Ethnobotany (4)
BIOL 330 Natural History of Insects (3)
BIOL 332 Introduction to Ornithology (2)
BIOL 350 Environmental Biology (3)
BIOL 364 Restoration Ecology (2)
BIOL 370 Introduction to Marine Environment (4)
BIOL 390 Natural History Field Study (0.5 - 4)
BIOL 494 Topics in Biology (0.5 - 4)
GEOG 330 Introduction to Geographic Information Systems (3)
GEOG 332 Introduction to Desktop GIS (2)
GEOG 333 Intermediate Desktop GIS (2)
GEOL 345 Geology of California (3)
CHEM 320 Environmental Chemistry (4)
BIOL 352 Conservation Biology at ARC (4)
Pathway 2 Units: 10
Total Units Required **23**

Certificate of Achievement
The Certificate of Achievement 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

Prerequisite: None.
Advisory: AH 110, ENGRD 110, or ESLR 320, and ENGWR 50 or ESLW 310 with grades of "C" or better.
General Education: AA/AS Area IV
Hours: 54 hours LEC
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 Natural Science general education requirement for the AA/AS degree, or AA/AS degree 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 290 Science Skills and Applications .5 Unit

Prerequisite: None.
Corequisite: Current enrollment in a science course.
Hours: 27 hours LAB
This course offers individualized instructional modules designed to acquire or improve reading skills in the various science classes. A partial list of skills may include the following: textbook comprehension, principle of learning and retention, note taking, annotating, discipline-based vocabulary, paraphrasing, reading graphics, test taking, and problem solving. Registration is open through the ninth week of the semester. To begin the course any later than that week would not permit completion of course material. This course may be taken four times for credit and is graded Pass/No Pass.

BIOL 295 Independent Studies in Biology 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

BIOL 299 Experimental Offering in Biology .5-4 Units

Prerequisite: None
Hours: 72 hours LEC; 27 hours LAB
See Experimental Offerings

BIOL 305 Natural History 4 Units

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B2; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Corequisite: BIOL 308
General Education: CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LAB
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

Prerequisite: None.
General Education: AA/AS Area IV
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed for both science and nonscience 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

Prerequisite: None.
General Education: AA/AS Area IV; AA/AS Area VI; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: None.
General Education: AA/AS Area IV
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 332 Introduction to Ornithology 2 Units

Prerequisite: None.
General Education: AA/AS Area IV (effective Summer 2009)
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
This introductory course covers the biology and natural history of birds. Topics include the evolutionary origins of birds and flight, avian physiology and sensory systems, migration, social behavior, reproduction, and conservation. Laboratory work explores bird structure and function, and teaches the taxonomic classification and identification of birds, particularly those found in California and the western United States. Four to six field trips (which may include one overnight trip) are required in which students study bird identification, behavior, and ecology.

BIOL 342 The New Plagues: New and Ancient Infectious Diseases Threatening World Health 3 Units

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B2; CSU Area E1; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B2; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a discussion of basic ecological processes as a basis for understanding environmental problems and formulating strategies for their solution. 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. One field trip is required for this course.

BIOL 360 Environmental Regulations 3 Units

Prerequisite: None.
Advisory: BIOL 305 and ENGWR 100 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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 field work 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. One field trip is required.

BIOL 362 Field Methods in Ecology 3 Units

Prerequisite: BIOL 305 and BIOL 320 or equivalent college-level courses with a grade of "C" or better.
Advisory: ENGWR 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 (approximately 10) are to local habitats and focus on seasonally relevant events and processes.

BIOL 364 Restoration Ecology 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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. Six field trips are required.

BIOL 370 Introduction to Marine Environment 4 Units

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course is an introduction to marine biology and oceanography. It includes the study of marine vertebrates and invertebrates, tidepool 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. Three field trips are required. Two of these 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

Prerequisite: None.
Course Transferable to CSU
Hours: 24 hours LEC; 144 hours LAB
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 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

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 IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: BIOL 402 or equivalent course with a grade of "C" or better.
General Education: AA/AS Area IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
This course is part of a three-semester general biology sequence designed for biology majors. It builds upon and applies concepts developed in Cell and Molecular Biology 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

Prerequisite: BIOL 402 or an equivalent college-level Cell and Molecular Biology course with a grade of "C" or better.
General Education: AA/AS Area IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: CHEM 305 or CHEM 400 with a grade of "C" or better.
Advisory: AH 110 and CHEM 306 with grades of "C" or better.
General Education: AA/AS Area IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
This course is an introduction to normal structure and function in humans. The course emphasizes 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

Prerequisite: BIOL 430 or the equivalent with a grade of "C" or better.
Advisory: AH 110 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: CHEM 400 or CHEM 305 or equivalent with a grade of "C" or better.
General Education: AA/AS Area IV; CSU Area B2; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC; 72 hours LAB
The course includes the study of selected evolutionary, ecological, 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 444 Water and Wastewater Microbiology 3 Units

Prerequisite: CHEM 326 with a grade of "C" or better
General Education: CSU Area B2
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course includes general concepts in microbiology and cell biology relevant to the role of microorganisms in water and wastewater treatment. Key concepts include selected evolutionary, ecological, morphological, physiological, and biochemical aspects of representative microorganisms found in water and particularly in wastewater. The laboratory includes aseptic techniques, culturing techniques, metabolism, genetics, and taxonomy. This course is intended for students in the Water Treatment Plant Operator or Wastewater Treatment Plant Operator Career Certificate and Mechanical-Electrical Technology Associate of Science Degree programs.

BIOL 464 Dinosaurs and the Science of Life 3 Units

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B2; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 BIOL 464 with a grade of "C" or better or concurrent enrollment in BIOL 464.
General Education: CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LAB
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 494 Topics in Biology .5-4 Units

Prerequisite: BIOL 320 with a grade of "C" or better; or college-level Plant Taxonomy course with an emphasis in field identification with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 72 hours LEC; 216 hours LAB
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 taken four times for credit providing there is no duplication of topics.

BIOL 495 Independent Studies in Biology 1-3 Units

Prerequisite: None.
Enrollment Limitation: Student must obtain approval from an instructor to conduct an independent study with that instructor or instructors.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is for students who wish to develop an in-depth understanding in fundamental topics of biology and to learn to work in a collaborative atmosphere with instructors and other students. Instructor approval is required to enroll in this course.

BIOL 499 Experimental Offering in Biology .5-4 Unit

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Business BUS, BUSTEC, MGMT, MKT, RE

Associate in Science Degree

Associate in Arts Degree

Certificate of Achievement

Cerificate of Completion

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

Accounting (see Accounting)

Business, General, Degree

Business Administration, Degree

Bookkeeping and Office Management, Degree and Certificate of Achievement

Business, Insurance, Degree and Certificate of Achievement

Business, Insurance, Basic, Certificate of Achievement

Business, Management, Degree and Certificate of Achievement

Business, Retail Management, Certificate of Achievement

Business, Small Business Management, Degree and Certificate of Achievement

Business, Marketing, Degree and Certificate of Achievement

Business, Marketing, Advertising, Degree

Business, Office Administration

- **Computer Keyboarding & Office Applications, Certificate of Achievement**
- **Clerical General Office, Certificate of Achievement, Level A, or Certificate of Completion, Level 3**
- **Introduction to Computerized Office Technologies, Certificate of Achievement, Level B**
- **Business Operations and Management Technology, Certificate of Achievement, Level C**
- **Virtual Office and Management Technologies, Degree and Certificate of Achievement, Level D**

Business, Real Estate, Degree and Certificate of Achievement

Business, Customer Service, Certificate of Completion, Level 1

Program Information
Within the Business area, specific majors are available in Accounting, Advertising, Bookkeeping, Customer Service, Insurance, 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 exploding 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

Program Information
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
Account Executive; Analyst; Bank Employee; Buyer; Clerk; Data-Entry Clerk; Data-Entry Specialist; Entrepreneur; Government Service; Insurance Representative; Manager; Marketing; Marketing Research; Office Assistant; Public Administration; Purchasing Agent; Retail/Industrial Sales.

Upon completion of this program, the student will be able to:

- identify and explain the major functional areas of the business organizations including management, marketing, finance, and accounting.
- demonstrate leadership skills and abilities that are effective in managing a multicultural workforce.
- analyze practical business problems and utilize critical thinking and research skills in the evaluation of alternative solutions.
- apply accounting concepts and principles in making decisions about business operations.
- integrate management principles related to finance, personnel, products, services and information.
- communicate effectively verbally and in writing in various business settings.
- apply commonly used computer application programs to compose relevant business documents.

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
ECON 302 Principles of Macroeconomics (3) or ECON 100 Introduction to Economics (3)	3
CISC 300 Computer Familiarization	1
BUS 330 Managing Diversity in theWorkplace	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
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: BUS 106 Business Mathematics (1 - 3) ECON 310 Economic Statistics (3)	3
Total Units Required	**36-37**

Associate in Science (A.S.) Degree
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. See SCC graduation requirements.

Business Administration

Associate in Arts Degree

Program Information
This program is designed for those who plan to continue their study of Business Administration at 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.

Career Opportunities
A business degree prepares students for a variety of careers including, but not limited to: accountant, analyst, banker, budget analyst, business consultant, entrepreneur, financial planner, human resource manager, operations manager, public relations specialist, public sector manager, recruiter, retail store manager, sales representative, school administrator, and supervisor.

Upon completion of this program, the student will be able to:
- appraise and explain the major functional areas of the business organizations including management, marketing, finance, and accounting.
- demonstrate leadership skills and abilities that are effective in managing a multicultural workforce.
- analyze practical business problems and utilize research and critical thinking to evaluate and recommend alternative solutions.
- incorporate accounting concepts and principles in making decisions about business operations.
- research and integrate management principles into the areas of finance, personnel, products, services, and information.
- effectively communicate verbally and in writing in various business settings.
- apply commonly used computer application programs to create relevant business documents.

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) or STAT 480 Introduction to Probability and Statistics – Honors (4)	4
MATH 342 Modern Business Mathematics	3
Total Units Required	**31**

Suggested Electives
BUS 340, CISA 320

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.

Bookkeeping and Office Management

Associate in Science Degree
Certificate of Achievement

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.

Upon completion of this program, the student will be able to:
- demonstrate effective oral and written communication skills that can be applied in various business settings.
- solve basic mathematical problems and prepare accounting reports using spreadsheet technology.
- incorporate accounting concepts and principles in making decisions about business operations.
- compose relevant business documents using intermediate-level skills and current office suite software programs.
- compare, judge, and evaluate a variety of current management philosophies when applied to business management situations.
- demonstrate individual responsibility, personal integrity, respect, and leadership skills and abilities that are effective in managing an office environment.

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
BUS 106 Business Mathematics (3), or ECON 310 Economic Statistics (3)	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 (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. See SCC graduation requirements.

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

Business, Insurance

Associate in Science Degree
Certificate of Achievement

Program Information
This degree is designed to prepare students for entry-level positions in insurance offices or insurance departments in major corporations. The coursework will also help prepare students for insurance certifications.

This program was developed collaboratively by business educators and representatives of the insurance industry in response to the growing needs of the industry for employees who have a basic understanding of insurance.

Career Opportunities
Insurance appraiser, agent, estimator, administrative assistant, broker, salesperson, and various management positions in insurance companies and insurance departments in major corporations.

Upon completion of this program, the student will be able to:
- discuss the various types of personal and commercial insurance coverage and explain when they are appropriate.
- describe the types of insurers, how insurance products and services are distributed to the consumer, and how insurance company departments function.
- explain how reinsurance is used to insure large property and high liability limits.
- identify the elements of an insurance contract and the conditions commonly found in basic ISO insurance contracts.
- discuss the underwriting process, underwriting management, and the regulation of underwriting activity.
- recognize loss exposure and the importance of the risk management process and establishing loss reserves.
- explain the roles and responsibilities of insurance agents and claim representatives, as well as the claim handling process.
- identify ethical and professional behavior, as well as laws and regulations that relate to the insurance industry.
- apply professional insurance concepts to various business and personal risk situations.
- incorporate basic business, computer, and communication skills into the practice of insurance.
- formulate original ideas and concepts in addition to integrating the ideas of others into the problem-solving process.

Required Program	Units
BUS 380 Introduction to Insurance	1
BUS 381 Property and Liability Insurance Principles	3
BUS 382 Personal Insurance	3
BUS 383 Commercial Insurance	3
BUS 384 Code and Ethics	1
BUS 498 Work Experience in Business	1-4[1]
ACCT 301 Financial Accounting	4
BUS 310 Business Communications	3
BUS 106 Business Mathematics	1-3
BUS 300 Introduction to Business	3
BUS 340 Business Law	3
CISC 300 Computer Familiarization	1
CISA 310 Introduction to Electronic Spreadsheets	1
A minimum of 1 unit from the following: CISA 311 Intermediate Electronic Spreadsheets (1) CISA 320 Introduction to Database Management (1) CISA 340 Presentation Graphics (2)	1
Total Units Required	**29 - 34**

[1]*Not required for those who can provide evidence of equivalent insurance office experience.*

Associate in Science Degree
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.

Certificate of Achievement
The Certificate of Achievement may be obtained by completing the concentration requirements with grades of "C" or better.

Business, Insurance, Basic

Certificate of Achievement

Program Information

This certificate is intended for individuals who currently hold a two-year or higher degree and/or have employment experience in an insurance office or an insurance-related business. This coursework will help prepare students for entry-level positions or advancement opportunities in the insurance industry or insurance departments in major corporations. The coursework is also intended to help prepare students for insurance certifications. Students who do not currently have a degree or business experience should consider pursuing the Insurance Certificate of Achievement or the Insurance A.S. degree.

This program was developed collaboratively by business educators and representatives of the insurance industry in response to the growing needs of the industry for employees who have a basic understanding of insurance.

Career Information

Insurance appraiser, agent, estimator, administrative assistant, broker, salesperson, and various management positions in insurance companies and insurance departments in major corporations.

Upon completion of this program, the student will be able to:

- discuss the various types of personal and commercial insurance coverage and explain when they are appropriate.
- describe the types of insurers, how insurance products and services are distributed to the consumer, and how insurance company departments function.
- explain how reinsurance is used to insure large property and high liability limits.
- identify the elements of an insurance contract and the conditions commonly found in basic ISO insurance contracts.
- discuss the underwriting process, underwriting management, and the regulation of underwriting activity.
- recognize loss exposure and the importance of the risk management process and establishing loss reserves.
- explain the roles and responsibilities of insurance agents and claim representatives, as well as the claim handling process.
- identify ethical and professional behavior, as well as laws and regulations that relate to the insurance industry.

Required Program	**Units**
BUS 380 Introduction to Insurance	**1**
BUS 381 Property and Liability Insurance Principles	**3**
BUS 382 Personal Insurance	**3**
BUS 383 Commercial Insurance	**3**
BUS 384 Code and Ethics	**1**
BUS 498 Work Experience in Business	**1 - 4**[1]
Total Units Required	**12 - 15**

Certificate of Completion

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

[1]*Not required for those who can provide evidence of equivalent insurance office experience*

Business, Management

Associate in Science Degree

Program Information

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.

Upon completion of this program, the student will be able to:

- analyze real or potential business problems and research, develop, evaluate, and test possible solutions using creativity, critical thinking, and technology skills.
- compare, judge, and evaluate a variety of current management philosophies when applied to business management situations.
- demonstrate individual responsibility, personal integrity, respect, and leadership skills and abilities that are effective in managing diverse people and cultures.
- develop effective oral and written communication skills that can be applied in various business settings.
- formulate original ideas and concepts in addition to integrating the ideas of others into the problem-solving process.
- demonstrate the ability to comprehend, apply, and evaluate standards of ethical behavior in various business situations.
- differentiate between the various career paths available in business management and develop the knowledge and skills necessary to prepare for a management career.

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)	
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 (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. See SCC graduation requirements.

Business, Management
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- analyze real or potential business problems and research, develop, evaluate, and test possible solutions using creativity, critical thinking, and technology skills.
- compare, judge, and evaluate a variety of current management philosophies when applied to business management situations.
- demonstrate individual responsibility, personal integrity, respect, and leadership skills and abilities that are effective in managing diverse people and cultures
- develop effective oral and written communication skills that can be applied in various business settings.
- demonstrate the ability to comprehend, apply, and evaluate standards of ethical behavior in various business situations.
- differentiate between the various career paths available in business management and develop the knowledge and skills necessary to prepare for a management career.

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**

Certificate of Achievement
A Certificate of Achievement may be obtained by completing the concentration requirements (18 units) with grades of "C" or better.

Business, Retail Management
Certificate of Achievement

Program Information
This program provides an overview of the retail industry and the skills needed to succeed in this arena. It is designed to provide training for those wishing to be owners, managers, or employees of retail organizations. The certificate meets the needs of industry leaders, such as the Western Association of Food Chains (WAFC).

Career Opportunities
Buyer, department supervisor, store manager, entrepreneur, customer service representative.

Upon completion of this program, the student will be able to:
- recognize retailing trends, applications, and the variables involved in service retailing.
- incorporate principles of product development, pricing, distribution strategies, promotion strategies, and market research.
- evaluate practical business problems and utilize critical thinking in the determination of alternative solutions.
- analyze the organization necessary for effective purchasing procedure in a large organization.
- incorporate principles of product development, pricing, distribution strategies, promotion strategies and market research.
- integrate management principles when dealing with issues in the areas of finance, personnel, products, services, and information.
- demonstrate an ability to effectively communicate business principles verbally and in writing.
- utilize critical thinking in the determination of alternative solutions.

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**

Certificate of Achievement
A Certificate of Achievement may be obtained by completion of the required courses with grades of "C" or better.

Business, Small Business Management

Associate in Science Degree

Program Information
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.

Upon completion of this program, the student will be able to:
- assess the feasibility of starting a business venture.
- research and compose a business plan suitable for planning and financing purposes.
- evaluate real or potential small business problems and apply appropriate management, finance, accounting, marketing, and technology solutions.
- develop effective oral and written communication skills that can be applied in various business settings.
- demonstrate the ability to comprehend, apply, and evaluate standards of ethical behavior in various business situations.
- formulate original ideas and concepts in addition to integrating the ideas of others into the problem solving process.

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)	
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 (A.S.) Degree
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. See SCC graduation requirements.

Business, Small Business Management

Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- assess the feasibility of starting a business venture.
- research and compose a business plan suitable for planning and financing purposes.
- evaluate real or potential small business problems and apply appropriate management, finance, accounting, marketing, and technology solutions.
- develop effective oral and written communication skills that can be applied in various business settings.
- demonstrate the ability to comprehend, apply, and evaluate standards of ethical behavior in various business situations.

Required Program for the Certificate	Units
ACCT 10, 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**

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

Business, Marketing
Associate in Science Degree

Program Information
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.

Career Opportunities
Sales and sales management, retail management, advertising, e-marketing, product management, marketing research, public relations, international marketing, services marketing.

Upon completion of this program, the student will be able to:
- identify and explain the major functional areas of business organizations, including management, marketing, finance, and accounting.
- describe consumer buying behavior and evaluate which marketing communications will most effectively meet the needs of the marketplace.
- employ the principles of product development, pricing, distribution, promotion, and market research in the development and execution of marketing strategy.
- demonstrate professional sales skills by effectively identifying and responding to customers' needs.
- apply the elements of marketing planning to relevant business situations.
- develop and select appropriate strategy, execution, and media for advertising.
- distinguish among the different concepts of ethics and social responsibility.
- formulate original ideas and concepts in addition to integrating the ideas of others into the problem solving process.
- evaluate practical business problems and utilize critical thinking in the determination of alternative solutions.

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: BUS 106 Business Mathematics (1 - 3); ECON 310 Economic Statistics (3)	3
A minimum of 9 units from the following: 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); 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)	9
A minimum of 9 units from the following: 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)	9
Total Units Required	**38-39**

Suggested Electives
BUS 212, BUS 220, BUS 330, BUS 498

Associate in Science (A.S.) Degree
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. See SCC graduation requirements.

Business, Marketing
Certificate of Achievement

Program Information
A Marketing Certificate of Achievement 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.

Career Opportunities
Sales and sales management, retail management, advertising, e-marketing, product management, marketing research, public relations, international marketing, services marketing.

Upon completion of this program, the student will be able to:
- identify and explain the major functional areas of business organizations, including management, marketing, finance, and accounting.
- describe consumer buying behavior and evaluate which marketing communications will most effectively meet the needs of the marketplace.
- employ the principles of product development, pricing, distribution, promotion, and market research in the development and execution of marketing strategy.
- demonstrate professional sales skills by effectively identifying and responding to customers' needs.
- apply the elements of marketing planning to relevant business situations.
- develop and select appropriate strategy, execution, and media for advertising.
- distinguish among the different concepts of ethics and social responsibility.

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: 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)	6

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**

Certificate of Achievement
A Certificate of Achievement may be obtained by completion of the Required Program with grades of "C" or better.

Business, Marketing, Advertising
Associate in Science Degree

Program Information
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.

Career Opportunities
Advertising, e-marketing, product management, public relations, services marketing, media planning, media buying, copywriter, communications.

Upon completion of this program, the student will be able to:
- develop and select the appropriate strategy, execution, and media for advertising and promotion.
- employ the principles of product development, pricing, distribution, promotion, and market research in the development and execution of marketing strategy.
- describe the consumer decision-making process and how marketing communications influence decisions.
- analyze consumer buying behavior and recommend how to ultilize marketing communications most effectively to meet consumer needs.
- apply design techniques to create effective marketing materials.
- distinguish among the different concepts of ethics and social responsibility.
- identify and explain the major functional areas of business organizations, including management, marketing, finance, and accounting.
- formulate original ideas and concepts in addition to integrating the ideas of others into the problem solving process.
- evaluate practical business problems and utilize critical thinking in the determination of alternative solutions.

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)
ECON 100 Introduction to Economics (3)
or ECON 302 Principles of Macroeconomics (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**

Suggested Electives
BUS 212, BUS 498

Associate in Science (A.S.) Degree
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. See SCC graduation requirements.

Business, Office Administration
Associate in Science Degree
Certificate of Achievement

Computer Keyboarding & Office Applications, Certificate of Achievement
Clerical General Office, Certificate of Achievement, Level A
Introduction to Computerized Office Technologies, Certificate of Achievement, Level B
Business Operations and Management Technology, Certificate of Achievement, Level C
Virtual Office and Management Technologies, Degree and Certificate of Achievement, Level D

Computer Keyboarding & Office Applications
Certificate of Achievement

Program Information
This certificate program prepares students to utilize various office applications software programs and key complex documents using proper formatting and technique for a variety of business and/or personal uses. This program is especially designed for students with little or no keyboarding or software applications experience, but it is also challenging enough for those who have experience typing and using office applications. Students will learn to use the computer keyboard by touch and progress to typing at least 40 words per minute. Students will use computer applications to create and edit business documents and develop solutions for complex business problems.

Career Opportunities
Due to the increase of office automation, computer keyboarding and office applications skills are used in a variety of career fields. No longer is typing and word processing left solely up to a secretary or administrative assistant. Professionals in many occupations use keyboarding skills and office applications on a regular basis including account executives, accountants, administrative assistants, administrators, auditors, authors, bookkeepers, call center representatives, computer programmers, computer technicians, customer service representatives, data entry operators, doctors, editors, engineers, lawyers, managers, medical record scanners, reporters, project managers, sales representatives, researchers, software engineers, stenographers, supervisors, teachers, and virtual assistants to name a few. This program will meet the needs of students who want to be able to type correctly and use office applications effectively in their present or future careers.

Upon completion of this program, the student will be able to:
- analyze, arrange, and type letters, memorandums, tables, and reports according to formatting and accuracy standards.
- touch type 40+ WPM for 5 minutes with a maximum of 1 error/minute.
- compose effective business employment documents such as cover letters and applications.
- utilize knowledge and skills learned in the classroom to real world business situations.
- compose business documents using various features of current office suite programs.
- research, prepare, and present on-screen presentations.
- solve business problems using spreadsheets as a tool.
- identify and correct spelling errors quickly and accurately.
- operate a numeric keypad by touch at a rate of 10,000 or more keystrokes an hour with 98 percent accuracy.
- demonstrate understanding of copyright laws, legal issues, social and ethical issues related to computer use.
- use basic Windows operating system commands to format disk, view, copy, move and erase files; create sub-directories.
- manipulate and manage files using a file manager.
- customize Windows using the Control Panel.
- establish folders (directories) and subfolders (sub-directories) for information management.

Required Program	**Units**
BUSTEC 100.1 Keyboarding Skills: Beginning	1
BUSTEC 100.2 Keyboarding Skills: Intermediate	1
BUSTEC 100.3 Keyboarding Skills: Advanced	1
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
BUSTEC 101 Computer Keyboarding: 10-Key	1
CISC 300 Computer Familiarization	1
CISA 305 Beginning Word Processing	2
CISA 340 Presentation Graphics	2
CISA 310 Introduction to Electronic Spreadsheets	1
[CISA 311 Intermediate Electronic Spreadsheets (1) and CISC 320 Operating Systems (1)] or CISA 306 Intermediate Word Processing (2)	2[1]
Total Units Required	**15**

[1]Fiscal Office Option: CISA 311 and CISC 320;
General Office Option: CISA 306

Certificate of Achievement
The Certificate of Achievement may be obtained by completing the concentration requirements with grades of "C" or better.

Office Administration
Clerical General Office
Certificate of Achievement, Level A

Program Information
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. Career Opportunities

This After completion of this Certificate of Achievement, possible job opportunities will will include: office assistant, general clerical worker, office clerk, records clerk, and information clerk.

Upon completion of this program, the student will be able to:
- demonstrate effective oral and written communication.
- key at least 28 WPM by touch.
- use office software to create, save, edit, and print documents.
- demonstrate proficiency using electronic forms of communication.
- support basic administrative procedures in an office environment.
- research information using the Internet.

Required Program	**Units**
CISC 300 Computer Familiarization (1) or CISC 310 Introduction to Computer Information Science (3)	1-3
BUS 100 English for the Professional	3
BUS 310 Business Communications	3
BUSTEC 100.1 Keyboarding Skills: Beginning (1) or BUSTEC 300.1 Beginning Keyboarding/Applications: Introduction (1)	1
BUSTEC 115 Records Management	2
BUSTEC 110 Business Procedures for Professional Success	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	**17-19**

Suggested Electives
COMM 301, BUSTEC 101

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

Office Administration
Introduction to Computerized Office Technologies
Certificate of Achievement, Level B

Program Information
This program prepares students for increased responsibilities in an administrative office where an emphasis on computer applications is required or desired.

Career Opportunities
This program prepares students for employment as accounting clerks, payroll clerks, administrative clerks, and general office clerks.

Upon completion of this program, the student will be able to:
- demonstrate effective oral and written communication.
- compose business documents using current office suite programs.
- research solutions to business problems using electronic and print sources.
- calculate payroll and prepare federal and state payroll tax returns.
- identify, record, transfer, and summarize business transactions.
- prioritize electronic and printed records.
- demonstrate the ability to key at least 40 WPM by touch.

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]Waived for students who demonstrate keying over 40 Net Words per minute on a five-minute timed test.
[2]Waived for students who demonstrate keying over 40 Net Words per minute on a five-minute timed test.
[3]Waived for students who demonstrate keying over 40 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

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

Office Administration

Business Operations and Management Technology
Certificate of Achievement, Level C

Program Information
This program prepares students for employment as Secretary, Administrative Assistant, Word Processor, and Receptionist. Many courses are available in a nine-week format.

Career Opportunities
This program prepares students for employment as administrative assistants, human resources assistants, data entry operators, billing clerks, bookkeepers, accounting clerks, and auditing clerks.

Upon completion of this program, the student will be able to:
- evaluate primary/secondary research findings and draw conclusions.
- compose complicated business documents using intermediate-level skills and current office suite software programs.
- calculate payroll and prepare federal and state payroll tax returns.
- identify, record, transfer, and summarize business transactions.
- arrange alphabetic and numeric records from printed and electronic sources.
- solve business problems using sophisticated management technology.

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
BUSTEC 101 Computer Keyboarding: 10-Key	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
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

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

Office Administration

Virtual Office and Management Technologies
Associate in Science Degree
Certificate of Achievement, Level D

Program Information
This exciting degree program is designed for students who desire to work in office administration or office management careers. Students who enjoy the challenges of learning new technologies and the flexibility of working outside of the typical office environment will be interested in this program. Students who have ever considered a career in which they could work from home should complete this degree.

Career Opportunities
This program prepares students for employment as administrative assistants, office supervisors, secretaries, administrative support supervisors, and virtual entrepreneurs.

Upon completion of this program, the student will be able to:

- create and edit documents using advanced word processing functions.
- analyze, arrange, and type letters, memorandums, tables, and reports according to the formatting and accuracy standards presented during the course.
- touch type 30 to 40+ WAM for 5 minutes with a maximum of 1 error/minute.
- prepare business documents that exhibit a clear understanding of the structure of English grammar, word usage, spelling, punctuation, and business vocabulary.
- apply methods of and demonstrate proficiency in coding, indexing, storing and retrieving alphabetic, subject, consecutive numeric, terminal-digit numeric, and geographic filing systems records.
- manipulate established database files, including adding to, deleting from, making changes to, and printing out reports.
- demonstrate an understanding of the importance of records retention along with its legal and ethical implications.
- produce business documents that show an understanding of the essentials of the sentence as an aid to clear thinking and effective writing.
- assess Internet options in the search for relevant information.
- compose a formal keyed research report based on research findings using APA style.
- compose effective business employment documents such as cover letters and applications.
- collaborate in small groups to conduct research.
- create effective presentations for audiences.
- identify, record, transfer, and summarize business transactions.
- prepare the income statement and balance sheets for sole proprietorships and partnerships.
- process payroll and prepare federal and state payroll tax returns.
- identify the basics of inventory and fixed assets/depreciation.
- apply a variety of current management philosophies to current management problems.
- analyze business and consumer issues, using cognitive skills, to make appropriate decisions.
- apply practical problem solving, analytical, and critical thinking skills to function successfully as consumers, employees, and business persons.
- apply knowledge and skills learned in the classroom to real world business situations.

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
CISA 340 Presentation Graphics	2
BUSTEC 115 Records Management	2
BUSTEC 350 Virtual Office Careers and Technologies	3
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**

[1]*Work experience must be in area related to Degree or Certificate.*

Suggested Electives
CISA 321, CISC 306, CISC 351; MKT 316; COMM 301; BUSTEC 101

Associate in 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 equal a 60-unit total. See SCC graduation requirements.

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

Business, Real Estate

Associate in Science Degree
Certificate of Achievement

Program Information
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
Career Opportunities include Real Estate Salesperson, Real Estate Broker, Real Estate Appraiser, Real Estate Investor, and Small Business Owner.

Upon completion of this program, the student will be able to:

- identify and explain the major functional areas of real estate, including legal aspects, finance, economics, real estate practice and appraisal.
- develop leadership skills and abilities that are effective in a real estate environment.
- analyze practical real estate problems and utilize research and critical thinking to evaluate and recommend alternative solutions.
- integrate real estate principles related to finance, law, products, services and information.
- assess current real estate market conditions.
- recommend appropriate sales strategies, based on market conditions.
- develop the necessary background and qualifications for the California Real Estate Brokers and Salesperson license examinations.

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 3
RE 360 Real Estate Economics..... 3

A minimum of 3 units from the following:..... 3
BUS 106 Business Mathematics (1-3)
or ECON 310 Economic Statistics (3)

A minimum of 6 units from the following:..... 6
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)

Total Units Required **35-36**

Associate in Science (A.S.) Degree
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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement may be obtained by completing the concentration requirements with grades of "C" or better.

Business, Customer Service

Certificate of Completion, Level 1

Program Information
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 offers 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 improve service to customers.

Upon completion of this program, the student will be able to:

- explain why it is so important for businesses to provide excellent quality service.
- demonstrate verbal and nonverbal workplace communication skills.
- identify attitude problems and demonstrate the skills required to maintain a positive attitude in the workplace.
- apply the leadership skills necessary to manage high performance teams.
- recognize the importance of ethics and values in the workplace and formulate a personal ethical philosophy.
- combine workplace skills with other key interpersonal skills (time management, change management, stress management, decision making, problem solving) to effectively meet the needs of customers.

Required Program **Units**

BUS 260 Communicating With Customers..... .5
BUS 261 Exceptional Customer Service 5
BUS 262 Team Building in the Workplace 5
BUS 263 Attitude in the Workplace..... .5

A minimum of two (2) units from the following:..... 2
BUS 264 Ethics and Values in the Workplace (.5)
BUS 265 Stress Management in the Workplace (.5)
BUS 266 Time Management in the Workplace (.5)
BUS 267 Dealing With Conflict in the Workplace (.5)
BUS 268 Decision Making & Problem Solving in the Workplace (.5)
BUS 269 Organizational Change (.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

Prerequisite: ENGWR 50 and ENGRD 110, or ESLW 320 and ESLR 320 with grades of "C" or better.
Advisory: Credit for BUSTEC 100.1 or completion of BUSTEC 300.1 with a grade of a "C" or better.
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: MATH 27 with a grade of Credit
Hours: 54 hours LEC
This variable unit course 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 unit for each eighteen hours of lecture, which is one module. Total credit cannot exceed three units. This course may be taken up to three times for a maximum of three units.

BUS 205 Entrepreneurship Quick Start 6 Units

Prerequisite: None.
Hours: 108 hours LEC
The Entrepreneurship Quick Start program is an intensive retraining program targeting professionals who want to open their own successful businesses. Entrepreneurs will learn 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

Prerequisite: None.
Hours: 18 hours LEC
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

Prerequisite: None.
Hours: 18 hours LEC
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

Prerequisite: None.
Hours: 18 hours LEC
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

Prerequisite: None.
Hours: 18 hours LEC
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

Prerequisite: None.
Hours: 18 hours LEC
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

Prerequisite: None.
Hours: 18 hours LEC
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.
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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.
Hours: 9 hours LEC
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

Prerequisite: None.
Hours: 72 hours LEC
This course is designed to give students an opportunity to study topics in business not included in current course offerings. This course may be taken four times for credit providing there is no duplication of topics.

BUS 300 Introduction to Business 3 Units

Prerequisite: None.
Advisory: ENGWR 50 or ESLW 50 with a grade "C" or better.
General Education: AA/AS Area V(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: BUS 100 or ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: Credit for BUSTEC 100.1 or BUSTEC 300.1 at 28+ net words per minute, or equivalent
AA/AS: Writing Competency
Course Transferable to CSU
Hours: 54 hours LEC
This course focuses on the use of communication within the global business environment. It includes the psychology, principles, and methods used by managers and professionals in the process of communicating with coworkers, employees, employers, customers, and constituents. Analytical skills are used to critique, plan, organize, compose, and edit business documents. Style, appearance, tone, vocabulary, grammar, punctuation, and reader appeal are stressed for effective oral, electronic, and written communication. A formal analytical research paper using APA or MLA style citations and graphics is required. Students will conduct primary and secondary research to draw conclusions and make recommendations. The results of the formal research paper will be presented in an oral presentation using presentation software.

BUS 320 Concepts in Personal Finance 3 Units

Same As: FCS 304
Prerequisite: None.
Advisory: ENGWR 50 or ESLW 50 with a grade of "C" or better.
General Education: AA/AS Area III(b); CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
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. Students may receive credit for BUS 320 or FCS 304 but not for both.

BUS 325 Investments and Financial Management 3 Units

Same As: ECON 330
Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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. Credit may be awarded for ECON 330 or BUS 325, but not for both.

BUS 330 Managing Diversity in the Workplace 3 Units

Prerequisite: None.
General Education: AA/AS Area VI; CSU Area D3; CSU Area D7
Course Transferable to CSU
Hours: 54 hours LEC
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, race, 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

Prerequisite: None.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to law in its relationship to the environment of business. The course covers the American legal system as an instrument of economic, social, and political control. It stresses basic business torts, business crimes, contracts and sales transactions, agency, legal structures of business, government regulation, and property rights.

BUS 345 Law and Society 3 Units

Prerequisite: None.
General Education: CSU Area D8; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course benefits students in every major by making all students 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, 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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This class covers 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 techniques, and other topics of interest to the small business entrepreneur.

BUS 380 Introduction to Insurance 1 Unit

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC
This introductory insurance course will provide students with a basic background in the modern property/casualty insurance system. Topics will include how insurance products and services are distributed to the consumer, how insurance company departments function, and how reinsurance is used to create an insurance company and insure large property and high liability values/limits. Students will gain an understanding of civil laws or tort and contract, the basic commercial and personal ISO insurance contracts, and the importance of the risk management process.

BUS 381 Property and Liability Insurance Principles 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
In this course, students will learn basic information concerning property and liability insurance. The first segment of the course covers the fundamentals of insurance including types of insurers, institutions that provide insurance, how it is regulated, and measurement of financial performance. The second segment includes insurance operations, such as marketing, underwriting, and claims. The final segment covers insurance contracts, loss exposure, and risk management.

BUS 382 Personal Insurance 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course will assist students in learning basic information regarding personal insurance. This course will be of value to anyone majoring in business or anyone who does not possess the knowledge to handle his/her personal insurance needs. This course includes information about automobile insurance; homeowners insurance; other residential insurance such as fire and earthquake insurance; marine insurance; other personal property and liability insurance; financial planning; life insurance; and health insurance.

BUS 383 Commercial Insurance 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course will provide students with basic information regarding the whole area of Commercial Insurance. Covered in this course is information concerning commercial property insurance, business income insurance, commercial crime insurance, equipment breakdown insurance, inland and ocean marine insurance,

commercial general liability insurance, commercial automobile insurance, business owners' policies and farm insurance, workers' compensation and employers' liability insurance, and other miscellaneous coverage.

BUS 384 Code and Ethics 1 Unit

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC
This course is designed for insurance majors. It addresses ethical considerations one must support in order to succeed in business, specifically in the insurance industry. Students will evaluate a variety of ethical situations specifically related to the insurance industry.

BUS 495 Independent Studies in Business .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Independent Studies

BUS 498 Work Experience in Business 1-4 Units

Prerequisite: None.
General Education: AA/AS Area III(b)
Enrollment Limitation: Students must be currently employed or participating in an internship to receive credit for this course.
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
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) or a job; 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 workplace or internship site; and developing workplace (soft) skills relevant to the 21st century workplace. 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. In addition, the student and the Work Experience instructor may tailor the course to meet the student's specific professional needs by identifying 1-4 workshops, trainings, or conferences that the student may attend as part of the curriculum of the Business 498 class. Only one Work Experience course may be taken per semester. Business includes Accounting, Business, Computer Information Science, Management, Marketing, and Real Estate. The class will explore the use of modern personnel management principles such as employee appraisal, interviewing, and self-motivation.

BUS 499 Experimental Offering in Business .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Business Technology (BUSTEC)

BUSTEC 100 Keyboarding Skills 1-3 Units

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 50, or ESLR 310 and ESLW 50 with grades of "C" or better.
Hours: 54 hours LEC; 54 hours LAB
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 graded Pass/No Pass. Students will earn a unit of credit for each module successfully completed.

BUSTEC 100.1 Keyboarding Skills: Beginning 1 Unit

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 50, or ESLR 310 and ESLW 50 with grades of "C" or better.
Hours: 18 hours LEC; 18 hours LAB
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 course is graded Pass/No Pass.

BUSTEC 100.2 Keyboarding Skills: Intermediate 1 Unit

Prerequisite: BUSTEC 300.1 with a grade of "C" or better or BUSTEC 100.1 with credit, and the ability to touch-type at least 28 words per minute for two minutes with a maximum of five errors.
Advisory: ENGRD 110 and ENGWR 50, or ESLR 310 and ESLW 50 with grades of "C" or better.
Hours: 18 hours LEC; 18 hours LAB
This intermediate course builds on the skills learned in the prerequisite course(s). BUSTEC 100.2 is designed for students who have the ability to touch-type but want 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 goals in order to receive credit for this course. Students who want to learn to format business documents using an Office-level word processing program should enroll in BUSTEC 300.2. BUSTEC 100.2 is not open to students who have already received credit for two units of BUSTEC 100. This course is graded Pass/No Pass.

BUSTEC 100.3 Keyboarding Skills: Advanced 1 Unit
Prerequisite: Credit for BUSTEC 100.2
Advisory: ENGRD 110 and ENGWR 50, or ESLR 310 and ESLW 50 with grades of "C" or better.
Hours: 18 hours LEC; 18 hours LAB
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 course is graded Pass/No Pass.

BUSTEC 101 Computer Keyboarding: 10-Key 1 Unit
Prerequisite: None.
Hours: 18 hours LEC; 18 hours LAB
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 Pass/No Pass.

BUSTEC 110 Business Procedures for Professional Success 3 Units
Prerequisite: None.
Advisory: BUS 100, BUSTEC 115, BUSTEC 300.2, CISA 305, CISA 310, and CISA 320 with grades of "C" or better
Hours: 54 hours LEC
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
Prerequisite: None.
Advisory: Credit for BUSTEC 100.1 or completion of BUSTEC 300.1 with a grade of "C" or better.
Hours: 36 hours LEC
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 295 Independent Studies in Business Technology 1-3 Units
Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Independent Studies

BUSTEC 299 Experimental Offering in Business Technology .5-4 Units
Prerequisite: None
Hours: 72 hours LEC
See Experimental Offerings

BUSTEC 300 Beginning Keyboarding/ Applications 1-3 Units
Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 50, or ESLW 320 and ESLR 320 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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. Proofreading, grammar, spelling, and punctuation are reinforced throughout the program. Students will earn a grade for each module successfully completed.

BUSTEC 300.1 Beginning Keyboarding/ Applications: Introduction 1 Unit
Prerequisite: None.
Advisory: ENGWR 50 and ENGRD 110, or ESLW 320 and ESLR 320 with grades of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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: BUSTEC 300.1 with a grade of "C" or better or BUSTEC 100.1 with credit, and the ability to touch-type at least 28 words per minute for two minutes with a maximum of five errors.
Advisory: ENGWR 50 and ENGRD 110, or ESLW 320 and ESLR 320 with grades of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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: 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: ENGWR 50 and ENGRD 110, or ESLW 320 and ESLR 320 with grades of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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: None.
Advisory: BUSTEC 300.1 with a grade of "C" or better or BUSTEC 100.1 with credit, and BUS 100 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course explores entrepreneurial business opportunities in the virtual office environment. Techniques and technologies needed by virtual office workers will be examined. Each student will create a simulated home-based virtual office business, develop and write a formal business plan that includes operating expenses for at least the first year, and devise a marketing strategy for a chosen virtual enterprise. Students will prepare and present oral presentations in which they showcase their home-based virtual office ventures.

BUSTEC 499 Experimental Offering in Business Technology — .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Management (MGMT)

MGMT 295 Independent Studies in Management — 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

MGMT 299 Experimental Offering in Management — .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

MGMT 304 Introduction to Management Functions — 3 Units

Prerequisite: None
Advisory: ENGWR 100, ESLW 340, or BUS 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGWR 100, ESLW 340, or BUS 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 100, ESLW 340, or BUS 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: BUS 100, ENGWR 100 or ESLW 340 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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.

MGMT 495 Independent Studies in Management 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

MGMT 499 Experimental Offering in Management .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Marketing (MKT)

MKT 300 Principles of Marketing 3 Units

Prerequisite: None.
Advisory: BUS 100, ENGWR 100, or ESLW 340 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: BUS 100, ENGWR 100, or ESLW 340 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
Retailing is a business activity that provides goods and services to customers for their personal use. This course covers 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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: CISC 305 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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.

MKT 495 Independent Studies in Marketing 1-3 Units

Prerequisite: None.
Enrollment Limitation: Student must obtain approval from an instructor to conduct an independent study with that instructor or instructors.
Course Transferable to CSU
Hours: 54 hours LAB
Independent study of a marketing topic or research project. This course is for students who wish to develop an in-depth understanding in fundamental topics of marketing and to learn to work in a collaborative atmosphere with instructors and other students. Instructor approval is required to enroll in this course.

MKT 498 Work Experience in Marketing 1-4 Units

Prerequisite: None.
Enrollment Limitation: 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.
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
This course provides students with opportunities to develop or add marketable skills related to their vocational study programs. 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. Only one Work Experience course may be taken per semester.

MKT 499 Experimental Offering in Marketing .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Real Estate (RE)

RE 300 California Real Estate Principles 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: RE 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This course covers operations in real estate: listing, prospecting, advertising, financing, sales techniques, escrow and ethics. This course applies toward educational requirements for a broker's examination.

RE 320 Real Estate Finance 3 Units

Prerequisite: None
Advisory: RE 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: RE 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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 3 Units

Prerequisite: RE 300 with a grade of "C" or better
Course Transferable to CSU
Hours: 62 hours LEC
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). Course also applies toward the Californaia Department of Real Estate educational requirements (3 semester units).

RE 344 Advanced Appraisals 3 Units

Prerequisite: RE 342 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: RE 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: RE 310 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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 a broker's examination.

RE 380 Computer Applications in Real Estate 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course introduces students to software applications used in the real estate industry for real estate practice, finance, appraisal, property management, and residential sales. This course applies toward the educational requirements for either a salesperson or broker's license.

RE 495 Independent Studies in Real Estate 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

RE 497 Internship in Real Estate 4 Units

Prerequisite: RE 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 162 hours LAB
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.

RE 498 Work Experience in Real Estate 1-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC; 150 hours LAB
This course provides supervised, structured hands-on experience in a Real Estate sales or Real Estate lender or Real Estate appraiser office for students seeking a career in Real Estate.

RE 499 Experimental Offering in Real Estate .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Chemistry CHEM

Associate in Science Degree

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

Chemistry
Associate in Science Degree

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 (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. See SCC graduation requirements.

Chemistry (CHEM)

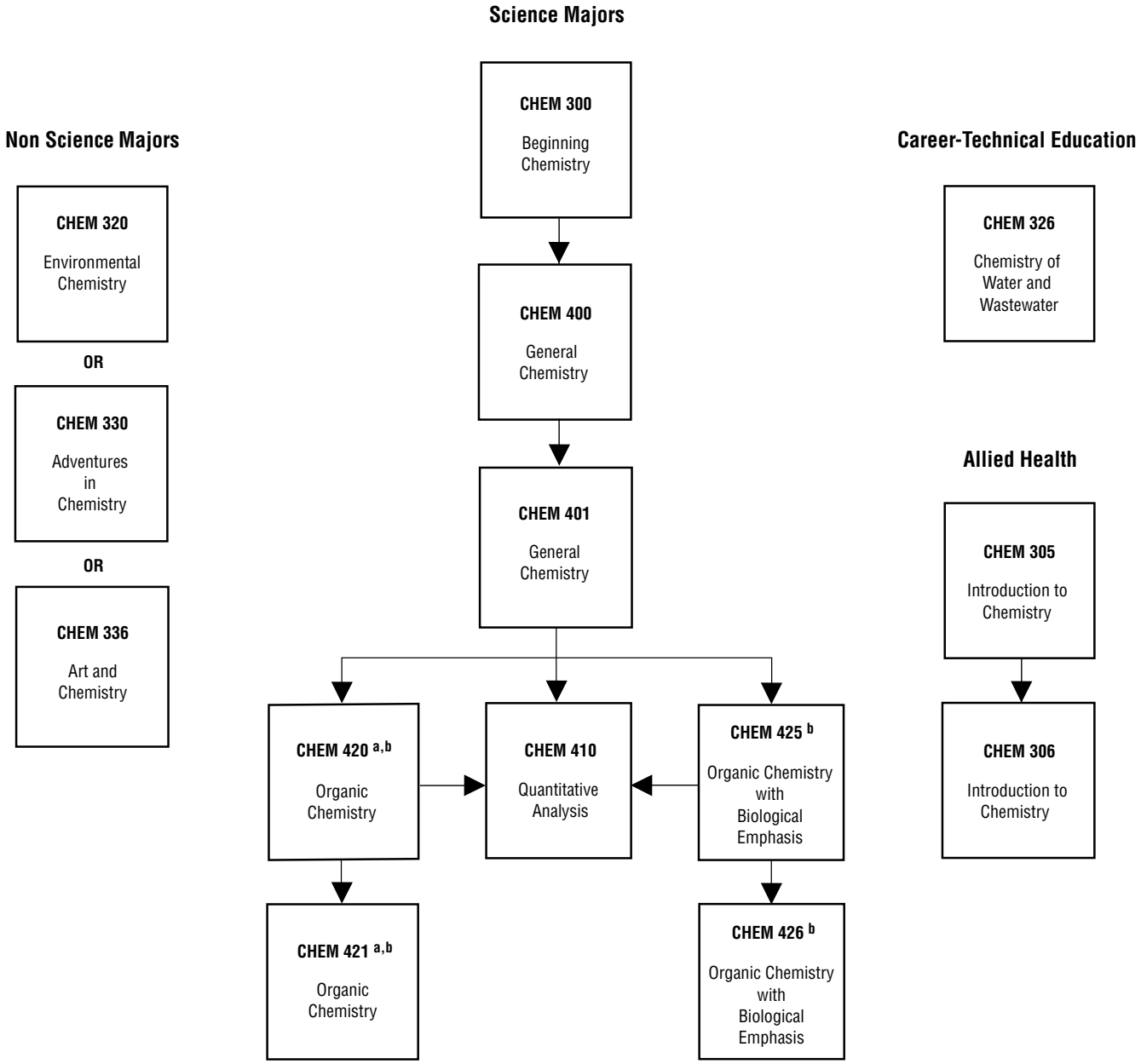
NOTE: The University of California has a credit restriction on certain combinations of chemistry courses. See a counselor for detailed information on the current UC Articulation Agreement.

CHEM 110 Preparatory Chemistry 2 Units
Prerequisite: None
Hours: 36 hours LEC
This is a Pass/No Pass 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 299 Experimental Offering in Chemistry .5-4 Units
Prerequisite: None
Hours: 72 hours LEC
See Experimental Offerings

CHEM 300 Beginning Chemistry 4 Units
Prerequisite: MATH 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: Concurrent enrollment in CHEM 317.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This is a lecture and laboratory course that covers the fundamental concepts of chemistry. This course assumes no previous knowledge of chemistry, presenting both chemical problem solving and laboratory skills. This course is intended primarily to prepare students for CHEM 305 or CHEM 400, but also fulfills the physical science area of the general education requirement for transfer students.

Chemistry Course Sequence



NOTES:
[a] Chemistry and Chemical Engineering Majors
[b] Pre-med, Pharmacy , Dentistry and Pre-vet Majors

CHEM 305 Introduction to Chemistry 5 Units

Prerequisite: MATH 100 with a grade of "C" or better OR MATH 103 and MATH 104 with grades of "C" or better, or equivalent.
Advisory: Completion of ENGWR 100 with a grade of "C" or better; Concurrent enrollment in CHEM 317 is advised.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 72 hours LEC; 54 hours LAB
This is 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

Prerequisite: CHEM 305 with a grade of "C" or better
Advisory: Completion of ENGWR 100 with a grade of C or better and concurrent enrollment of CHEM 317
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 72 hours LEC; 54 hours LAB
Chemistry 306 is a continuation of Chemistry 305. It covers organic chemistry and biochemistry, particularly as applied to the health sciences. It is designed to introduce the organic functional groups along with their structure, physical and chemical properties, and reaction mechanisms, and how they are applied to biological systems. The biochemistry portion emphasizes the structure and function of carbohydrates, lipids, and proteins and their regulation in the body. 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

Prerequisite: None
Corequisite: CHEM 300, 305, 306, 420, 421, 425, or 426.
Course Transferable to CSU
Hours: 18 hours LEC
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, organic and biochemistry applied to the health sciences, (CHEM 306), organic chemistry with a biological emphasis, (CHEM 425), and organic chemistry for chemistry majors, (CHEM 420). 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

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course explores the interrelationship of human beings and their living and nonliving environments with regard 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 326 Water and Wastewater Treatment Chemistry 3 Units

Prerequisite: MET 365 or MET 366 with a grade of "C" or better
Advisory: MET 375 or MET 376 with a grade of "C" or better or concurrent enrollment in MET 375 or MET 376
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course includes basic chemical principles particularly relevant to water and wastewater treatment. Key principles discussed include basic atomic structure, chemical bonding, equations and reactions, reaction rates and equilibrium, acids and bases, oxidation-reduction, and an introduction to organic chemistry. Components of this course may be offered on-line. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

CHEM 330 Adventures in Chemistry 4 Units

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course is a survey of the fundamental concepts and contemporary applications of chemistry. Students will explore the real world applications of chemistry in the home, the environment, health, fitness, nutrition, medicine, and modern technology. The basic concepts of chemistry will be introduced. The course is designed for non-science majors.

CHEM 336 Art and Chemistry 4 Units

Prerequisite: None.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course is an exploration of the chemistry of art and art media. Students will investigate through a variety of lecture and laboratory activities the scientific basis of paints, dyes, photography, fresco, metalworking, fabric, polymers, glass work, art preservation/restoration, art forgery, and chemical hazards in art. Chemical concepts such as the atomic nature of matter, molecules, elements, compounds, chemical bonding, chemical reactions, intermolecular forces, acids and bases, solubility, spectroscopy, oxidation and reduction, and carbon chemistry will be discussed as they apply to the chemical nature of art.

CHEM 400 General Chemistry 5 Units

Prerequisite: CHEM 300 with a grade of "C" or placement through the assessment process (ACS California Chemistry Diagnostic Exam, completed within one year of enrollment in CHEM 400); AND MATH 120 or MATH 124 with a grade of "C" or placement through the assessment process (Accuplacer exam within one year of enrollment in CHEM 400).
Advisory: All students enrolling in this course are strongly advised to take the chemistry and math assessment exams administered through the Assessment Center, regardless of prior coursework. These exams provide a better idea of a student's readiness for college level general chemistry, since they measure the actual chemistry and math capabilities of the student as they enroll in the course, rather than at the completion of their preparatory coursework.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 72 hours LAB ; 18 hours DIS
CHEM 400 covers the fundamental principles and concepts of chemistry including chemical nomenclature, balancing reactions, stoichiometry, thermochemistry, acid/base and reduction/oxidation (redox) reactions. Also covered are theories addressing atomic and molecular structure and bonding, as well as the physical and chemical properties of gases, liquids, solids, and solutions, including strong and weak intermolecular forces. One hour per week will be devoted to discussion/problem solving sessions. Laboratory experiments are primarily 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

Prerequisite: CHEM 400 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 72 hours LAB ; 18 hours DIS
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

Prerequisite: CHEM 401 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
This is a course in chemical quantitative analysis. Emphasis is placed on the proper design, control, and handling of experimental data obtained through the use of various analytical methods. For example, gravimetric, volumetric, electrochemical, spectrophotometric, and chromatographic methods are employed. Students will calibrate glassware and instruments, design and validate experimental methods, keep a detailed laboratory notebook, and prepare and deliver scientific reports. This course is for students planning careers in chemistry, biochemistry, chemical engineering, forensics, pre-pharmacy, biology, molecular biology, and microbiology.

CHEM 420 Organic Chemistry 5 Units

Prerequisite: CHEM 401 with a grade of "C" or better.
Advisory: Concurrent enrollment in Chem 317.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: CHEM 420 with a grade of "C" or better
Advisory: CHEM 317 with a grade of "C" or better.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: CHEM 401 with a grade of "C" or better
Advisory: CHEM 317
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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 courses 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), polarimetry, organic synthesis, reaction analysis, and spectroscopy (IR) with emphasis on biological applications.

CHEM 426 Organic Chemistry with Biological Emphasis 4 Units

Prerequisite: CHEM 425 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course, a continuation of CHEM 425, focuses on the preparation, properties, reactions, and spectroscopy (IR, NMR, mass 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

Prerequisite: CHEM 400 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 9 hours LEC; 27 hours LAB
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

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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 which are part of current course offerings. This course may be taken four times providing there is no duplication of topics.

CHEM 495 Independent Studies in Chemistry 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 162 hours LEC
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement among college, faculty members and students. Independent studies in chemistry offers students a chance to do research and/or experimentation that is more typical of industry and graduate student work.

CHEM 499 Experimental Offering in Chemistry .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Communication COMM

Associate in Arts Degree

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 18a

916-558-2551

Communication

Associate in Arts Degree

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 in 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.

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.

Recommended High School Preparation
Standard college preparatory program.

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.

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.

Upon completion of this program, the student will be able to:
- demonstrate an understanding of the history, evolution and multidisciplinary nature of communication theories.
- identify and differentiate amongst various perspectives across the communication discipline.
- critically analyze evidence and reasoning to identify and provide appropriate and credible support for written and oral communication.
- identify and demonstrate effective and appropriate written and/or oral communication skills, both verbal and nonverbal, across diverse contexts.
- demonstrate individual responsibility, integrity, respect and influence to effectively and appropriately communicate with diverse people.
- identify and access a variety of professional and academic opportunities related to the communication discipline.

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 (3)	
or ENGWR 384 Mass Media and Society (3)	
or JOUR 310 Mass Media and Society (3)	
Total Units Required	**18**

Suggested Electives
COMM 305, 345, 335, 316, 361

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.

Communication (COMM)

COMM 270 Communication Laboratory .5-3 Units

Prerequisite: None
Hours: 162 hours LAB
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 including public speaking, argumentation, small group, forensics speaking, and interpersonal communication. Although this course is most effective for students concurrently enrolled in Communication courses, any students who need assistance in communication skills can benefit. Course offerings vary, depending upon the student's needs and abilities. Students may work with peer tutors and instructors to improve their understanding and skills in speech organization, preparation of presentation aids, delivery of oral messages, creating group agendas, etc. The course is graded Pass/No Pass. Students earn 0.5 units for every 27 hours. 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

Prerequisite: ENGWR 100 or ESLW 320 with a grade of "C" or better; or placement through the assessment process.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Area II(b); CSU Area A1; IGETC Area 1C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 varied audiences. Video and/or audio taping equipment may be used as an aid to the student's self-analysis and improvement. Access to a computer with on-line capabilities may be required and is available on campus.

COMM 302 Persuasive Speech 3 Units

Prerequisite: COMM 301 with a grade of "C" or better
Advisory: Concurrent enrollment in COMM 270 (Communication Training Laboratory)
General Education: AA/AS Area II(b); CSU Area A1; 1C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 100 or ESLW 320 with a grade of "C" or better; or placement through the assessment process.
Advisory: ENGRD 310 or ESLR 320 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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' theater. 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

Prerequisite: ENGWR 100 or ESLW 320 with a grade of "C" or better; or placement through the assessment process.
Advisory: Recommended concurrent enrollment in COMM 270.
General Education: AA/AS Area II(b); CSU Area A1; CSU Area A3; IGETC Area 1C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Video taping equipment may be used as an aid to the student's self-analysis and improvement.

COMM 315 Persuasion 3 Units

Prerequisite: ENGWR 300 or ESLW 340 with a grade of "C" or better
General Education: AA/AS Area II(b); CSU Area A3
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 oral and written 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

Prerequisite: ENGWR 300 or ESLW 340 with a grade of "C" or better
General Education: AA/AS Area II(b); CSU Area A3; IGETC Area 1B
Course Transferable to UC/CSU
Hours: 54 hours LEC
The primary emphasis of this course is on argumentation as the study of analysis, evidence, reasoning, refutation, and rebuttal, in written, oral, and visual 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

Prerequisite: ENGWR 50 or ESLW 310 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area III(b); CSU Area D7; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course focuses on the exploration of communication skills associated with establishing and maintaining satisfying interpersonal 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 interpersonal personal communication effectiveness through heightened awareness and greater skill as both a sender and receiver of shared messages.

COMM 323 Listening 3 Units

Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
This course focuses on the listener's role in the communication process. The student will learn about the listening process, barriers to listening, and strategies to improve listen skills in a variety of contexts. This course develops competence in listening skills in informal, formal and professional settings.

COMM 325 Intercultural Communication 3 Units

Prerequisite: ENGWR 100 or ESLW 320 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area V(b); AA/AS Area II(b); AA/AS Area VI; CSU Area D3; CSU Area D7; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: COMM 301, COMM 321, ENGWR 100, ESLW 320, PSYC 300, or SOC 341/FCS 326 with a grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D4; IGETC Area 4D
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course examines gender as it is created and recreated through the process of communication. Gender is the social construction of femininity and masculinity within cultures. Gender stereotypes are behaviors that are stereotypically associated with males and females but are not necessarily accurate reflections of actual communication behavior. Verbal and nonverbal similarities and differences are examined within historical, social, psychological, and cultural perspectives. This course focuses on gender and gender stereotypes in four primary contexts: intimate relationships, the educational setting, the media, and the workplace.

COMM 331 Group Discussion 3 Units

Prerequisite: ENGWR 100 or ESLW 320 with a grade of "C" or better; or placement through the assessment process.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Area II(b); CSU Area A1; IGETC Area 1C
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is designed to increase students' understanding of group communication and to prepare students to function more effectively in groups. The course primarily focuses 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

Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area III(b); CSU Area D7
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320; with grades of "C" or better; or placement through the assessment process.
General Education: AA/AS Area V(b); AA/AS Area II(b); CSU Area D7
Course Transferable to CSU
Hours: 54 hours LEC
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 communications 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

Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC
This course offers students the opportunity to study contemporary communication principles and practices in modern organizations. Emphasis is placed on 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 persuasive strategies as used in organizations, and developing fundamental skills in interviewing and promotion.

COMM 345 Interviewing 3 Units

Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320 with a course grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC
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
Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320 with a "C" or better.
General Education: AA/AS Area V(b); CSU Area D4; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, and processes and effects from a social science perspective. (Credit may be awarded for COMM 351, ENGWR 384 or JOUR 310.)

COMM 361 The Communication Experience 3 Units

Prerequisite: ENGWR 100 or ESLW 320 with a grade of "C" or better; or placement through the assessment process.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Area II(b); CSU Area A1; IGETC Area 1C
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course introduces students to basic skills and introductory concepts necessary for effective communication in a variety of settings with a variety of audiences. Special emphasis is placed on practical experiences within groups, facilitation of interpersonal relationships, and methods of conflict resolution. As part of this course, students will be required to actively participate in groups and deliver individual and group oral presentations.

COMM 363 Introduction to Communication Theory 3 Units

Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area V(b); CSU Area D7; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 100 or ESLW 340 with a grade of "C" or better; or placement through the assessment process.
Advisory: COMM 270
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course covers the analysis and effective use of the voice to express thought and feeling, including innuendo and mixed messages in a variety of communication situations. Included is the study of the attributes of the vocal mechanism and speech process, including proper breathing, articulation and voice production, and the interpretation of literary selections to achieve planned audience response.

COMM 374 Forensics Laboratory 1-3 Units

Prerequisite: None
Advisory: COMM 301 or COMM 311 with a grade of "C" or better
Course Transferable to CSU
Hours: 18 hours LEC; 108 hours LAB
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 to tournaments or other speaking events may be required. The course is open entry/open exit and may be taken four times for a maximum of twelve 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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course is designed to enable both communication and non-communication majors to learn about recent developments in communication. Selected topics would not be part of current course offerings. This course may be taken four times providing there is no duplication of topics.

COMM 495 Independent Studies in Communication 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement among college, faculty members, and students. Independent studies in communication offers students a chance to do research that is more typical of industry and graduate student work. This course may be taken four times providing there is no duplication of content areas.

COMM 499 Experimental Offering in Communication .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
This is an experimental course offering designed to provide students with courses not normally offered by the Communication department. Course topics will be structured around new and emerging issues related to the field of Communication.

Community Leadership Development COMDE

Matriculation, Support Services, and Student Development
To Be Announced
South Gym 226
916-558-2194

COMDE 300 Leadership Skills Development **3 Units**

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.
Course Transferable to CSU
Hours: 54 hours LEC
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.

COMDE 495 Independent Studies in Community Leadership Development **1-3 Units**

See Independent Studies

COMDE 499 Experimental Offering in Community Leadership Development **.5-4 Units**

See Experimental Offerings

Community Studies
Emphasis on Direct Services

Associate in Arts Degree

Certificate of Achievement

Department of Sociology

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Community Studies
Associate in Arts Degree
Certificate of Achievement

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.

Upon completion of this program, the student will be able to:
- evaluate the history of the helping professions and the evolution of services and social policy over time.
- analyze social service organizational structure, its functions, and its application to social service programs and delivery systems.
- demonstrate an understanding of the social services worker as a professional, and the various roles, that the social service worker assumes in the community.
- assess personal strengths and weaknesses, interests, and values as they pertain to the field of social services.
- compare and choose core helping interventions for the generalist practitioner.
- determine and develop community resources used in assisting clients.
- integrate personal sensitivity and awareness of the cultural diversity of clients, helping professionals, and communities.
- judge and apply knowledge of existing professional codes of ethics and laws for the helping professions.

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)	
PSYC 370 Human Development: A Life Span (3)	
or FCS 324 Human Development: A Life Span (3)	
PSYC 405 Substance Abuse: Effects on Body and Behavior (3)	
or, ADMJ 303 Substance Abuse-Effects on Body and Behavior (3)	
FCS 320 Marriage and the Family (3)	
or SOC 310 Marriage and the Family (3)	
SOC 335 Sociology of Aging (3)	
or GERON 300 Sociology of Aging (3)	
or FCS 330 Sociology of Aging (3)	
Total Units Required	**21**

Suggested Electives
FCS 312, ECE 312, PSYC 320, PSYC 340, SOC 343

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.

Certificate of Achievement
The Certificate of Achievement 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

Certificate of Achievement

Certificate of Completion

Department of Computer Information Science

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

Computer Science, Degree and Certificate of Achievement

Management Information Science, Degree and Certificate of Achievement

Database Management, Certificate of Achievement

Programming, Certificate of Achievement

Information Processing, Degree

Information Processing Specialist, Certificate of Achievement

Information Processing Technician, Certificate of Achievement or Certificate of Completion, Level 3

Word Processing Technician, Certificate of Completion, Level 2 or 3

Information Systems Security, Degree and Certificate of Achievement

Network Administration, Degree and Certificate of Achievement

Network Design, Degree and Certificate of Achievement

Advanced CISCO Networking, Certificate of Achievement

Microcomputer Technician, Degree and Certificate of Achievement

PC Support, Certificate of Achievement

Web Developer, Degree and Certificate of Achievement

Active Server Pages Developer, Certificate of Achievement

International Computer Driving License, Certificate of Completion, Level 2

Webmaster, Level 1, Certificate of Achievement

Webmaster, Level 2, Certificate of Achievement

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 400 (C++) or 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) and general chemistry 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 001, 002, 003 in the form of our CISA 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, 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
Certificate of Achievement

Program Information
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.

Career Opportunities
Technical positions include computer operator, computer programmer, system analysts, database administrators, computer support, or help desk specialists, Web developers, and application developers.

Opportunities in networking include network support specialists, network administrators and technicians, network security specialist, computer forensics specialist, Webmasters, Web developers, and Web site designers.

Upon completion of this program, the student will be able to:
- analyze development projects and divide them into smaller production tasks.
- build a project while utilizing the project development model.
- manage a programming project, both individually and as a member of a team, from initial concept through design, programming, debugging, testing, and deployment.
- evaluate a program to determine how it will meet the needs of its intended audience.
- design, write, test, debug, and implement computer programs in a structured language, a low-level language, and an object-oriented language.
- create programs utilizing both Windows and Linux operating systems.

Required 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]
CISC 305 Introduction to the Internet (1)	
CISC 351 Introduction to Local Area Networks (1)	
CISC 355 Introduction to Data Communications (1.5)	
CISN 303 Network Administration - Linux Server (3)	
CISW 320 Introduction to Web Site Development (3)	
CISW 325 Intermediate Web Site Development (4)	
CISP 320 COBOL Programming (4)	
CISP 350 Database Programming (3)	
CISP 370 Beginning Visual Basic (4)	
CISP 401 Object Oriented Programming with Java (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 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 (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. See SCC graduation requirements.

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

Management Information Science

Associate in Science Degree
Certificate of Achievement

Program Information
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.

Career Opportunities
Computer Operator, End-user Consultant, Programmer, Microcomputer Applications Specialist, Network Administrator, Technical Writer, Web Master, Web Developer, and Web Site Designer.

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.

Upon completion of this program, the student will be able to:
- solve business problems by utilizing various types of microcomputer application software.
- design algorithms that can be implemented by writing a computer program to solve typical business problems.
- construct and implement computer programs by applying the steps of the program development model working individually or in a team.
- design professional documents for a variety of situations using appropriate productivity software, working individually or in a team.
- demonstrate working knowledge of principles in computer networking, data management, information systems security, web development or more indepth programming depending on the electives chosen.
- adapt to technological changes and innovations in the computer industry and use techniques, skills and tools necessary to meet needs.
- locate information stored on the Internet, determine the validity of online resources, download and store files, and use the correct syntax for citing Internet resources.

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 - Linux Server (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 (A.S.) Degree
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. See SCC graduation requirements.

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

Database Management

Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- demonstrate working knowledge of relational database technologies for desktop, enterprise, and Internet platforms.
- demonstrate working knowledge of database theory and principles.
- assess and document information system requirements.
- employ modular programming concepts in program development.
- design and code elementary programs encountered in business and government.
- identify interactive web publishing situations requiring database solutions.
- create interactive web database applications.

Required Program	Units
CISA 310 Introduction to Electronic Spreadsheets	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**

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

Programming
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- analyze information processing requirements using Structured or Object Oriented software development methodologies.
- design structured or object oriented software systems.
- build structured or object oriented software systems.
- evaluate software systems for conformance to system requirements.
- serve as a member of a software development team.

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**

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

Information Processing
Associate in Science Degree

Program Information
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: health information technician, customer or client service representatives, and customer support specialists. Based on recent Bureau of Labor Statistics (2002-2012) figures, job demands in these areas will grow from a low of 24% to a high of 47%, and will continue to exceed the number of available and trained workers.

Upon completion of this program, the student will be able to:
- develop the creativity, critical thinking, ethical behavior, and self-understanding that are essential to the attainment of personal goals.
- develop an appreciation for the individual, society, and human heritage and be aware of the impact of their work on society and the environment.
- communicate effectively through speaking, writing, and the use of professional tools.
- recognize and appreciate the need for and pursue life-long learning and continual professional development.
- develop an integrated overview of the diverse field of human knowledge in natural science, social science, humanities, language and rationality, and living skills.
- demonstrate an understanding of professional ethics and responsibilities, and the impact of the professional on society.
- demonstrate an understanding of global, ethical, and societal concerns relating to the impact of computers.
- adapt to technological changes and innovations in computers and use the techniques, skills, and tools necessary to meet needs.
- analyze needs, design solutions, and implement necessary microcomputer applications or processes to on-the-job problems in a team environment using appropriate diagnostic tools.

Required Program	Units
CISC 300 Computer Familiarization (1)	1-3
or CISC 310 Introduction to Computer Information Science (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 323 Database Management using Microsoft Access	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	**20 - 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 (A.S.) Degree
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. See SCC graduation requirements.

Information Processing Specialist

Certificate of Achievement

Program Information
This Certificate of Achievement 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.

Upon completion of this program, the student will be able to:
- design, implement, manage, and evaluate data management systems involving custom programming to solve complex business problems.
- analyze and integrate data from various application programs for individual and group on-the-job projects.
- set up, test, and implement complex macros and programming for on-the-job usage.
- demonstrate understanding of basic hardware components and the organization, installation, and repair of microcomputers.
- evaluate different hardware and software specification standards and implement problem-solving strategy or techniques using various diagnostic tools.
- analyze on-the-job needs, identify software and hardware related problems, and effectively communicate solutions to end users.

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 311 Intermediate Electronic Spreadsheets	1
CISA 323 Database Management using Microsoft Access	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	**20-27**

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

Information Processing Technician

Certificate of Achievement
Certificate of Completion

Program Information
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 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.

Such positions include: health information technician, customer or client service representatives, and customer support specialists. Based on recent Bureau of Labor Statistics (2002-2012) figures, job demands in these areas will grow from a low of 24% to a high of 47%, and will continue to exceed the number of available and trained workers.

Upon completion of this program, the student will be able to:

- demonstrate proficiency in Windows operating system commands, programs, file and folders management, storage, and utilities.
- identify on-the-job problems, projects, presentations, and assignments and design appropriate software solutions or tools.
- evaluate effectiveness of software solutions and implement suitable software changes, enhancements, or improvements.
- design and implement data management systems involving queries, data entry, screen, forms, tables, reports, and labels.
- explain and use asynchronous and synchronous communication tools.
- identify Internet laws, guidelines, security and privacy issues and determine specific on-the-job applications.

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 323 Database Management using Microsoft Access	2
Total Units Required	**17 - 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 Achievement
The Certificate of Achievement 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.

Upon completion of this program, the student will be able to:
- demonstrate competency in basic Window operating system terminology and commands, file management and storage, and data input.
- recognize and identify word processing terminology, styles, libraries, and settings.
- describe and analyze word processing concepts and theories to interpret and operate appropriate applications.
- explain and use all formatting components within presentation quality documents (including all format commands and codes, tables, different tab and indent settings).
- design and complete presentation quality business materials without use of help feature or templates.
- analyze and apply appropriate word processing features (e.g., line and page numbering, headers/footers) to complete typical business reports and documents.
- organize and complete a multi-page business document incorporating advanced document features (e.g., graphics, outlining, macro, and merge).

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

Program Information
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.

Upon completion of this program, the student will be able to:
- develop best practices for configuring network operating system services to provide optimum security.
- compare and contrast the benefits of firewalls vs. intrusion detection devices and software.
- analyze organizational needs and implement internal security policies for the enterprise.
- evaluate and implement the required security programs and policies to protect the enterprise against viruses, Trojans, worms, rootkits, and spyware.
- construct file system permissions and share permissions to allow only the minimum levels of access needed by users to use network resources.
- prioritize and establish a disaster recovery plan for the enterprise.
- explain and configure a network firewall to provide optimum security from external threats and exploits.
- construct and apply group policies and file system permissions to secure files and network resources.

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 - Linux Server (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 340 CISCO Networking Academy (CCNA)Tm: 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 (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. See SCC graduation requirements.

Information Systems Security
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- define best practices for configuring network operating system services to provide optimum security.
- analyze organizational needs and implement internal security policies for the enterprise.
- evaluate and implement the required security programs and policies to protect the enterprise against viruses, trojans, worms, rootkits, and spyware.
- compare and contrast the benefits of firewalls vs. intrusion detection devices and software.
- construct file system permissions and share permissions to allow only the minimum levels of access needed by users to use network resources.

Required Program for the Certificate of Achievement	**Units**
CISC 320 Operating Systems (1)	1
or CISC 323 Linux Operating System (1)	
CISN 300 Network Systems Administration (3)	3
or CISN 303 Network Administration - Linux Server (3)	
or CISN 304 Networking Technologies (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)	3
or CISS 342 Implementing Linux Operating System Security (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**

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

Network Administration

Associate in Science Degree
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- demonstrate competency in Windows operating system terminology and commands, account management, and file management and storage.
- construct and implement computer network systems by applying the steps of the network design model working individually or in a team.
- demonstrate working knowledge of principles in computer networking and data management, or information systems security, or web server administration, depending on the electives chosen.
- define best practices for configuring network operating system services.
- analyze and apply directory services group policy settings at the Organizational Unit (OU), domain, site or local machine level.

Required Program	**Units**
CISC 320 Operating Systems (1)	1
or CISC 323 Linux Operating System (1)	
CISN 300 Network Systems Administration (3)	3
or CISN 303 Network Administration - Linux Server (3)	
or CISN 304 Networking Technologies (3)	
CISN 302 Intermediate Network Systems Administration	3
CISN 306 Advanced Network Systems Administration (3)	3
or CISN 307 Windows Active Directory Services (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 340 CISCO Networking Academy (CCNA)Tm: Data Communication and Networking Fundamentals (3)	
CISN 341 CISCO Networking Academy (CCNA)Tm: Networking Theory and Routing Technologies (3)	
CISN 346 Network Design and Projects (3.5)	
CISN 303 Network Administration- Linux Server (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 (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. See SCC graduation requirements.

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

Network Design

Associate in Science Degree
Certificate of Achievement

Program Information
The Network Design Degree and Certificate of Achievement 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 Certificate of Achievement 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.

Upon completion of this program, the student will be able to:
- develop best practices for configuring IP addresses.
- evaluate and implement technologies to support IP routing protocols such as RIP, IGRP, and OSPF.
- construct and configure access lists.
- compare and contrast types of network media.
- demonstrate working knowledge of principles in computer networking and data management, or information systems security, or web server administration, depending on the electives chosen.
- demonstrate competency in Windows operating system terminology and commands, account management, and file management and storage.

Required Program	Units
CISC 320 Operating Systems (1)	1
or CISC 323 Linux Operating System (1)	
CISN 340 CISCO Networking Academy (CCNA)Tm: Data Communication and Networking Fundamentals	3
CISN 341 CISCO Networking Academy (CCNA)Tm: Networking Theory and Routing Technologies	3
CISN 342 CISCO Networking Academy (CCNA)Tm: Advanced Routing and Switching	3
CISN 343 CISCO Networking Academy (CCNA)Tm: Wide Area Network and Project-Based Learning	3
CISN 346 Network Design and Projects (3.5)	3-3.5
or CISN 336 Wireless Technologies (3)	
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 300 Network Systems Administration (3)	
CISN 303 Network Administration - Linux Server (3)	
CISN 304 Networking Technologies (3)	
CISN 324 Designing Windows Networking Services (3)	
Total Units Required	**28-28.5**

Associate in 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. See SCC graduation requirements.

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

Advanced CISCO Networking

Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- develop best practices for configuring scalable IP addresses.
- construct and configure complex access control lists.
- design and test edge router connectivity into a BGP network.
- evaluate and implement advanced multilayer switching configuration.

Required Program	Units
CISN 350 CISCO Networking Academy (CCNP)Tm: Advanced Router Configuration	3
CISN 351 CISCO Networking Academy (CCNP)Tm: Remote Access	3
CISN 352 CISCO Networking Academy (CCNP)Tm: Multi-Layer Switching	3
CISN 353 CISCO Networking Academy (CCNP)Tm: Internetwork Troubleshooting	3
Total Units Required	**12**

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

Microcomputer Technician

Associate in Science Degree
Certificate of Achievement

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.

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.

Upon completion of this program, the student will be able to:
- use the operating system on a personal computer to manipulate files and folders.
- use the operating system on a personal computer to configure hardware and applications.
- explain common computer terminology used in computer information science and electronics technology.
- diagnose common computer errors that occur because of hardware, software, or network problems.
- predict common computer error solutions in hardware, software, or network systems.
- resolve common computer errors that occur in hardware, software, or network 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)	1
or CISC 323 Linux Operating System (1)	
CISA 310 Introduction to Electronic Spreadsheets	1
CISA 311 Intermediate Electronic Spreadsheets	1
CISA 323 Database Management using Microsoft Access	2
ET 145 Basic Computer System Repair I (1)	4
and ET 146 Basic Computer System Repair II (3)	
or CISC 360 Microcomputer Support and Maintenance (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)	1.5-3
or CISN 300 Network Systems Administration (3)	
or CISN 303 Network Administration - Linux Server (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)	
CISN 300 Network Systems Administration (3)	
CISC 351 Introduction to Local Area Networks (1)	
CISN 303 Network Administration - Linux Server (3)	
CISN 304 Networking Technologies (3)	
Total Units Required	**33.5 - 35**

Associate in 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.

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

PC Support
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- compose clear, grammatically-correct documents related to business using word processing software.
- design electronic spreadsheets useful in making decisions.
- design, install, and maintain a local area network.
- design presentation graphics.
- construct and implement web pages, including links, graphics, and text.
- prepare basic components of data communications.
- analyze and troubleshoot computer hardware and software problems.
- apply database software to organize information for decision-making.
- demonstrate competency in basic operating systems terminology, commands, and functions.
- demonstrate competence in the Internet related to searches, email, and security.

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
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)	4
or [ET 145 Basic Computer System Repair I (1) and ET 146 Basic Computer System Repair II (3)]	
Total Units Required	**20.5-23.5**

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

Web Developer

Associate in Science Degree
Certificate of Achievement

Program Information
Web Developers are proficient at creating Web site structure and interactivity. The Web Developer degree 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.

Upon completion of this program, the student will be able to:
- apply file management techniques to the management of multi-level Web sites hosted on a Web server.
- utilize multiple programs simultaneously in order to develop Web sites.
- utilize markup languages, including the current version of HTML, Web authoring software, and cascading style sheets to develop complex Web sites that are uploaded via File Transfer Protocol (FTP) to a Web server.
- research and implement current World Wide Web Consortium (W3C) standards including technical recommendations for markup languages, the Web Accessibility Initiative (WAI), the Web Mobility Initiative (WMI), and other recommendations as they are introduced.
- plan a structured approach to Web site development that identifies the information dissemination needs of a client and organizes the content effectively and efficiently in order to communicate to an identified audience, and then develop and implement an appropriate Web solution.
- utilize client-side scripting in order to manipulate interactive objects like navigation bars, forms, rollovers, other event handling, and the control of windows, frames, and layers.
- develop Web solutions that include form validation and processing, server-side programming with hypertext-preprocessor (PHP), active server pages (ASP), CGI scripting with Perl, and database-driven Web development.
- demonstrate proficiency in the process of Web project management on a real-world Web site including design specification, research, production, modification, and presentation.
- design, implement, manage, and evaluate data management systems involving custom programming to solve complex business problems.

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) or CISW 420 Server-side Web Scripting (4)	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.

Associate in 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.

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

Active Server Pages Developer

Certificate of Achievement

Program Information
This 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.

Upon completion of this program, the student will be able to:
- apply file management techniques to the management of multi-level Web sites hosted on a Web server.
- utilize multiple programs simultaneously in order to develop Web sites.
- utilize markup languages, including XHTML, web authoring software, and cascading style sheets to develop multi-level Web sites that are uploaded via File Transfer Protocol (FTP) to a Web server.
- plan a structured approach to Web site development that identifies the information dissemination needs of a client and organizes the content effectively and efficiently in order to communicate to an identified audience, and then develop and implement an appropriate Web solution.
- demonstrate basic skills in form validation and processing, server-side programming with Active Server Pages (ASP) and database-driven Web development.
- demonstrate proficiency in the process of Web project management on a real-world Web site including design specification, research, production, modification, and presentation.
- design, implement, manage, and evaluate data management systems involving custom programming to solve complex business problems.

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**

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

International Computer Driving License

Certificate of Completion, Level 2

Program Information
Designed for students in any field who want to pass all seven examinations that are part of the International Computer Driving License (ICDL). These courses prepare students by teaching them the terminology used in the world of computers and the World Wide Web. Then it teaches students how to create files using a word processor, a spreadsheet, a database, a digital presentation package, and a Web page creation tool. Students who complete these courses should be prepared to take all seven examinations from ICDL.

Career Opportunities
Office Worker, Administrative Assistant, Business Office Employee, Information Technician, Insurance Agent, Retail Clerk, Office Clerk

Upon completion of this program, the student will be able to:
- demonstrate proficiency in Windows operating system commands, programs, file and folders management, storage, and utilities.
- identify problems, projects, presentations, and assignments and design appropriate software solutions or tools.
- evaluate effectiveness of software solutions and implement suitable software changes, enhancements, or improvements.
- design and implement data management systems involving queries, data entry, screen, forms, tables, reports, and labels.
- create presentations with common presentation software.
- identify Internet laws, guidelines, security and privacy issues.
- explain and show how to use the World Wide Web for sending and receiving mail, searching for information, using on-line directories, and transferring files from/to the Web to/from the personal computer.
- create a word processing document, a spreadsheet that calculates values, a memo or report, a report from a database, and a Web page using the appropriate software tools.
- explain what the most common software tools are called and what use they have including listing the most common filename extensions.

Required Program	Units
CISC 310 Introduction to Computer Information Science	3
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 305 Introduction to the Internet	1
Total Units Required	**11**

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

Webmaster, Level 1

Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- apply file management techniques to the management of multi-level Web sites hosted on a Web server.
- utilize multiple programs simultaneously in order to develop Web sites.
- explain the global infrastructure that supports the Internet and the World Wide Web and how communication through the Web is accomplished.
- demonstrate an understanding of the visual design concepts related to designing a Web site for a specific audience.
- create graphic and media elements that effectively enhance a Web site without impacting bandwidth.
- utilize markup languages, including XHTML, web authoring software, and cascading style sheets to develop multi-level Web sites that are uploaded via File Transfer Protocol. (FTP) to a Web server.
- research and implement current World Wide Web Consortium (W3C) standards including technical recommendations for markup languages, the Web Accessibility Initiative (WAI), the Web Mobility Initiative (WMI), and other recommendations as they are introduced.
- plan a structured approach to Web site development that identifies the information dissemination needs of a client and organizes the content effectively and efficiently in order to communicate to an identified audience, and then develop and implement an appropriate Web solution.
- utilize client-side scripting in order to manipulate interactive objects like navigation bars, forms, rollovers, other event handling, and the control of windows, frames, and layers.
- demonstrate basic skills in form validation and processing, server-side programming with hypertext pre-processor (PHP), CGI scripting with Perl, and database-driven Web development.

- demonstrate proficiency in the process of Web project management on a real-world Web site including design specification, research, production, modification, and presentation.
- explain the history of electronic commerce including the theory and practice of marketing via the World Wide Web.

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 370 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.

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

Webmaster, Level 2
Certificate of Achievement

Program Information
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 2 certificate requires learning standards-based Web site development and basic skills related to servers, routers, security, network management, and systems maintenance. This certificate prepares the student for entry-level employment as a Webmaster or Web server administrator.

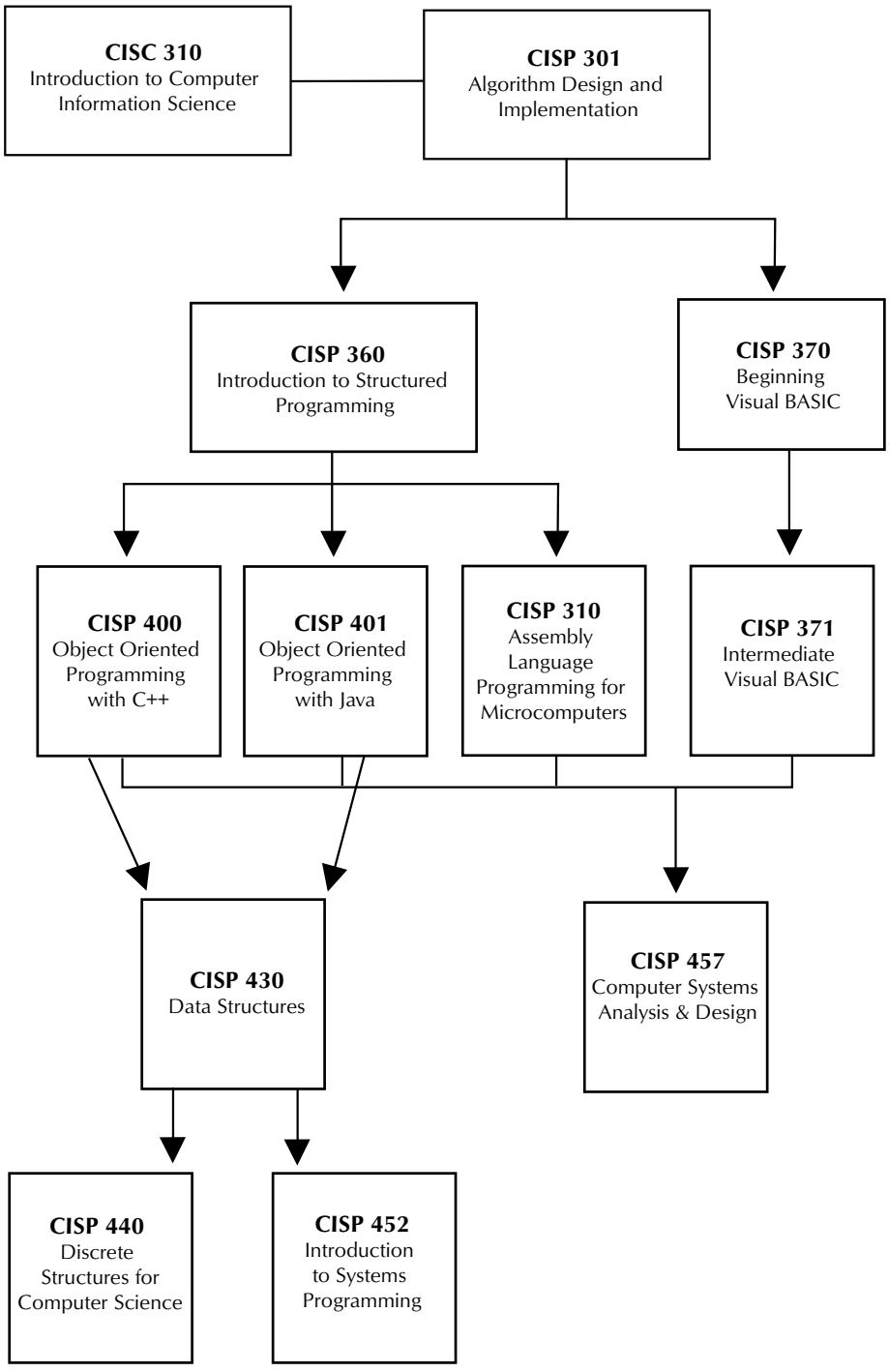
Career Opportunities
Webmaster, Web Team Member, Information System Analyst, Information Technology Analyst, Web server administrator.

Upon completion of this program, the student will be able to:
- apply file management techniques to the management of multi-level Web sites hosted on a Web server.
- explain the global infrastructure that supports the Internet and the World Wide Web and how communication through the Web is accomplished.
- explain the history of electronic communication including the theory and practice of doing business via the World Wide Web.
- utilize markup languages, including XHTML, web authoring software, and cascading style sheets to develop complex Web sites that are uploaded via File Transfer Protocol (FTP) to a Web server.
- research and implement current World Wide Web Consortium (W3C) standards including technical recommendations for markup languages, the Web Accessibility Initiative (WAI), the Web Mobility Initiative (WMI), and other recommendations as they are introduced.
- plan a structured approach to Web site development that identifies the information dissemination needs of a client and organizes the content effectively and efficiently in order to communicate to an identified audience, and then develop and implement an appropriate Web solution.
- demonstrate basic skills in form validation and processing, server-side programming with hypertext pre-processor (PHP), CGI scripting with Perl, and database-driven Web development.
- demonstrate proficiency in the process of Web project management on a real-world Web site including design specification, research, production, modification, and presentation.
- administer a server in a client/server network including managing network security with user and group accounts, creating directory structures and network shares, monitoring and troubleshooting network resources, and establishing policies and procedures for server operations.
- administer a Web server using appropriate protocols for the Internet and intranets including the installation, configuration, management and tuning of Web servers; WWW and FTP services; security features; on-line transaction processing; and Web site optimization.
- analyze risks to a Web server and implement a workable security policy that protects information assets from potential intrusion, damage or theft, including countermeasures to deploy to thwart potential attacks.
- install and maintain a firewall to prevent unauthorized access to a Web server, manage secure access to key services while maintaining your organization's security, and implement firewall-to-firewall Virtual Private Networks (VPNs).

Required Program	Units
CISC 320 Operating Systems (1)	1-1.5
or GCOM 101 Introduction to the Macintosh (1.5)	
CISC 323 Linux Operating System	1
CISC 355 Introduction to Data Communications	1.5
CISW 320 Introduction to Web Site Development (3)	3
or CISW 321 Web Site Development using Dreamweaver (3)	
CISN 300 Network Systems Administration (3)	3
or CISN 303 Network Administration - Linux Server (3)	
CISW 325 Intermediate Web Site Development (4)	4
or CISW 410 Middleware Web Scripting (4)	
or CISW 420 Server-side Web Scripting (4)	
CISS 310 Network Security Fundamentals	3
CISN 308 Internetworking with TCP/IP	3
CISS 330 Implementing Internet Security and Firewalls	3
CISN 370 Web Server Administration	3
Total Units Required	**25.5-26**

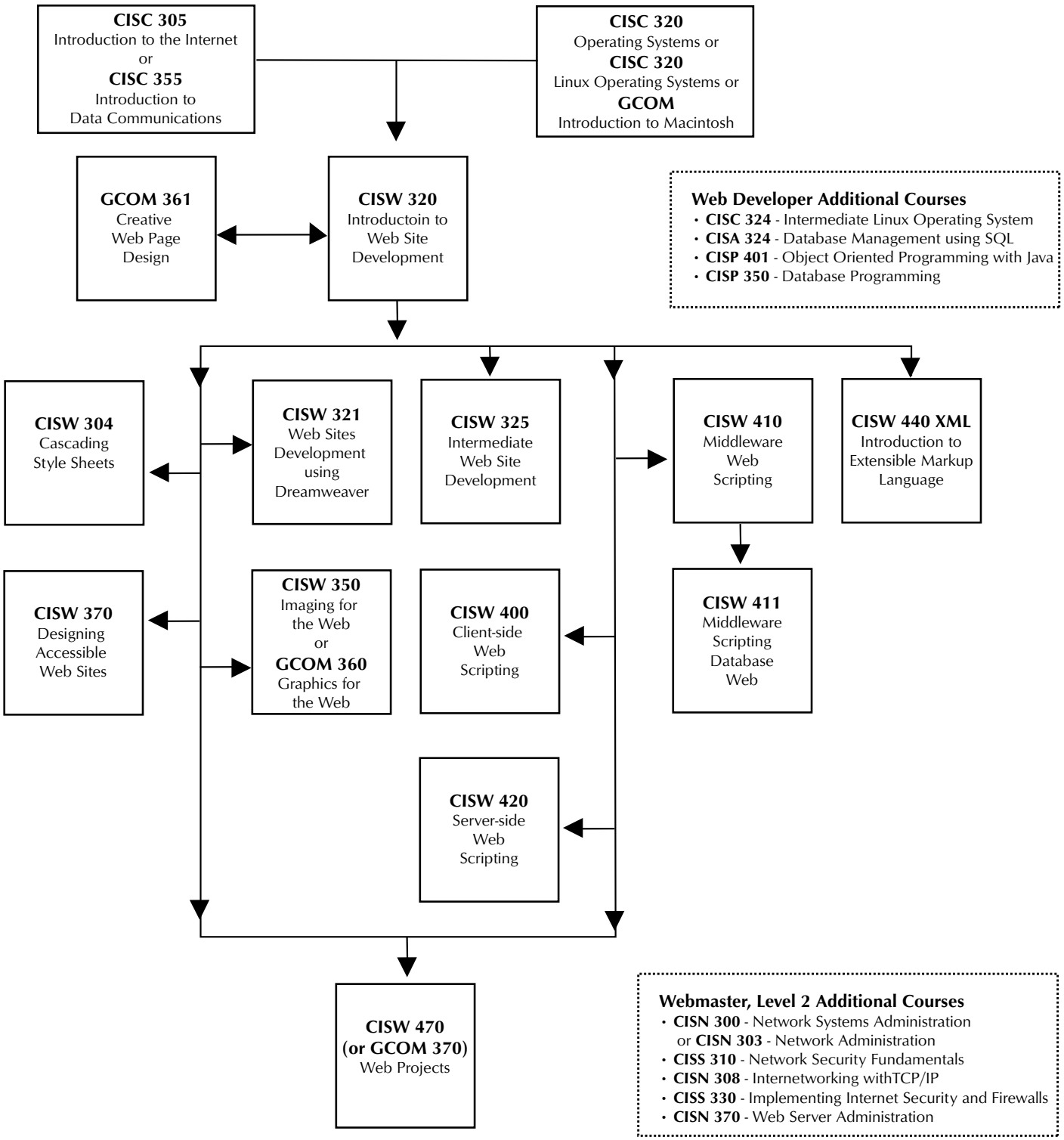
Certificate of Achievement
The Certificate of Achievement may be obtained by completion of the required program with grades of "C" or better.

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.

Computer Info Science - Applications (CISA)

CISA 305 Beginning Word Processing 2 Units

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.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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

Prerequisite: CISA 305 with a grade of "C" or better.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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 meets the requirement for MIS 3 at CSUS. This course does not meet the requirements for SCC CIS certificates or degrees.

CISA 310 Introduction to Electronic Spreadsheets 1 Unit

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.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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

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.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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 323 Database Management using Microsoft Access 2 Units

Prerequisite: CISC 300 or 310 with a grade of "C" or better.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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

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.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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.

CISA 495 Independent Studies: Computer Information Science Applications 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

CISA 499 Experimental Offering in Computer Information Science - Applications .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Computer Info Science - Core (CISC)

CISC 90 Computer Skills for New Users 1 Unit

Prerequisite: None.
Hours: 9 hours LEC; 27 hours LAB
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 Pass/No Pass course only. This course will prepare the student for beginning computer courses.

CISC 110 Using ePortfolios 1 Unit

Prerequisite: None
Hours: 18 hours LEC
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 resumes for different jobs, reference letters, transcripts, writing samples, and other work products.

CISC 295 Independent Studies in Computer Information Science-Core 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

CISC 299 Experimental Offering in Computer Information Science-Core .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
See Experimental Offering

CISC 300 Computer Familiarization 1 Unit

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 II(b)
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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

Prerequisite: None
Advisory: CISC 300 or CISC 310 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC
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

Prerequisite: CISC 300 or 310 with a grade of "C" or better.
Advisory: Completion of CISC 305 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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 meets the requirement for MIS 1 at CSUS. This course does not meet the requirements for SCC CIS certificates and degrees.

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 II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: CISC 300 or CISC 310 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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

Prerequisite: CISC 320 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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.

CISC 324 Intermediate Linux Operating System 1 Unit

Prerequisite: CISC 323 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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

Prerequisite: CISC 355 with a grade of "C" or better.
Advisory: Completion of CISC 320 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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.
Course Transferable to CSU
Hours: 27 hours LEC
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

Prerequisite: CISC 300 or CISC 310 and CISC 320 and CISC 351 with grades of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
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 495 Independent Studies in Computer Information Science-Core 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

CISC 498 Work Experience in Computer Information Science - Core 1-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Work Experience

CISC 499 Experimental Offering in Computer Information Science-Core .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Computer Info Science-Network (CISN)

CISN 299 Experimental Offering in Computer Information Science - Network .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
See Experimental Offering

CISN 300 Network Systems Administration 3 Units

Prerequisite: None.
Advisory: CISC 320 (Windows or Linux) with a grade of "C" or better.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 48 hours LEC; 28 hours LAB
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. Recertification is required when the operating system has been updated. This course may be taken up to four times for credit when recertification is required.

CISN 302 Intermediate Network Systems Administration 3 Units

Prerequisite: CISN 300 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 48 hours LEC; 28 hours LAB
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. Recertification is required when the operating system has been updated. This course may be taken up to four times for credit when recertification is required.

CISN 303 Network Administration - Linux Server 3 Units

Prerequisite: None.
Advisory: CISC 323 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
This course provides introductory coverage of Linux Network Administration. 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 covers material required for software manufacturer's certification.

CISN 304 Networking Technologies 3 Units

Prerequisite: CISC 310, 320, and 355 with grades of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 48 hours LEC; 28 hours LAB
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. Recertification is required when the operating system has been updated. This course may be taken up to four times for credit when recertification is required.

CISN 305 Managing a Windows Network Environment 3 Units

Prerequisite: Successful completion of CISN 302 with a grade of "C" or better.
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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 computers; 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

Prerequisite: CISN 300 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 48 hours LEC; 28 hours LAB
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. Recertification is required when the operating system has been updated. This course may be taken up to four times for credit when recertification is required.

CISN 307 Windows Active Directory Services 3 Units

Prerequisite: CISC 320 with a grade of "C" or better
Course Transferable to CSU
Hours: 48 hours LEC; 28 hours LAB
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 covers material required for the Microsoft Networking examinations. Recertification is required when the operating system has been updated. This course may be taken up to four times for credit when recertification is required.

CISN 308 Internetworking with TCP/IP 3 Units

Prerequisite: CISN 300 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 48 hours LEC; 28 hours LAB
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. This course covers material required for the Microsoft Networking examinations. Recertification is required when the operating system has been updated. This course may be taken up to four times for credit, when recertification is required.

CISN 315 Advanced Network Administration 2 Units

Prerequisite: CISN 303 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 36 hours LEC; 18 hours LAB
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 II(b)
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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 II(b)
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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 II(b)
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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 336 Wireless Technologies 3 Units

Prerequisite: CISN 141 or 341 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 20 hours LAB
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. This course may be taken four times for credit for credit for recertification due to industry standards. Formerly CISN 136.

CISN 340 CISCO Networking Academy (CCNA)[tm]: Data Communication and Networking 3 Units

Prerequisite: None.
Advisory: CISC 320 and one of CISC 300 or CISC 310 with grades of "C" or better.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 18 hours LAB
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). This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 140.

CISN 341 CISCO Networking Academy (CCNA)[tm]: Networking Theory and Routing Technologies 3 Units

Prerequisite: CISN 140 or 340 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 18 hours LAB
This course provides an introduction to networking theory and routing technologies, including OSI Model, beginning router configurations, and 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). This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 141.

CISN 342 CISCO Networking Academy (CCNA)[tm]: Advanced Routing and Switching 3 Units

Prerequisite: CISN 141 or 341 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC; 20 hours LAB
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). This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 142.

CISN 343 CISCO Networking Academy (CCNA)[tm]: Wide Area Network and Project-Based 3 Units

Prerequisite: CISN 142 or 342 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC; 20 hours LAB
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). This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 143.

CISN 346 Network Design and Projects 3.5 Units

Prerequisite: CISN 141 or 341 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 27 hours LAB
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. This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 146.

CISN 350 CISCO Networking Academy (CCNP)[tm]: Advanced Router Configuration 3 Units

Prerequisite: CISN 143 with a grade of "C" or better; or CISN 343 with a grade of "C" or better, or valid CISCO Certified Network Associate (CCNA) certification.
Course Transferable to CSU
Hours: 54 hours LEC; 20 hours LAB
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. This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 150.

CISN 351 CISCO Networking Academy (CCNP)[tm]: Remote Access 3 Units

Prerequisite: CISN 143 with a grade of "C" or better; or CISN 343 with a grade of "C" or better, or valid CISCO Certified Network Associate (CCNA) certification
Course Transferable to CSU
Hours: 54 hours LEC; 20 hours LAB
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. This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 151.

CISN 352 CISCO Networking Academy (CCNP)[tm]: Multi-Layer Switching 3 Units

Prerequisite: CISN 143 with a grade of "C" or better; or CISN 343 with a grade of "C" or better, or valid CISCO Certified Network Associate (CCNA) certification
Course Transferable to CSU
Hours: 54 hours LEC; 20 hours LAB
This course develops knowledge and skills in multi-layer switched networks. Topics include how routing and switching technologies work together, building campus networks using multi-layer 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. This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 152.

CISN 353 CISCO Networking Academy (CCNP)[tm]: Internetwork Troubleshooting 3 Units

Prerequisite: CISN 143 with a grade of "C" or better; or CISN 343 with a grade of "C" or better, or valid CISCO Certified Network Associate (CCNA) certification
Course Transferable to CSU
Hours: 54 hours LEC; 20 hours LAB
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. This course may be taken four times for credit for recertification due to industry standards. Formerly CISN 153.

CISN 370 Web Server Administration 3 Units

Prerequisite: CISN 300 or 303 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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

Prerequisite: CISN 102 with a grade of "C" or better.
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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 II(b)
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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.

CISN 499 Experimental Offering in Computer Information Science-Network .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Experimental Offering

Computer Info Science - Programming (CISP)

CISP 301 Algorithm Design and Implementation 4 Units

Prerequisite: None.
Advisory: CISC 310; At least one year of high school algebra or MATH 100
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: CISP 301 and 360 with grades of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: CISP 301 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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

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 II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: CISA 323 with a grade of "C" or better
Advisory: proficiency in any high-level programming language
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: CISP 301 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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 II(b)
Course Transferable to CSU
Hours: 36 hours LEC; 18 hours LAB
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

Prerequisite: CISP 301 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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 II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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

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 II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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 overloading; 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 II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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, class associations, testing and debugging.

CISP 430 Data Structures 4 Units

Prerequisite: CISP 400 or 401 with a grade of "C" or better
General Education: AA/AS Area II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: CISP 430 and MATH 370 with grades of "C" or better
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: CISP 430 with a grade of "C" or better
Advisory: C structured programming language experience
General Education: AA/AS Area II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 18 hours LAB
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.

CISP 499 Experimental Offering in Computer Information Science-Programming .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 90 hours LEC
See Experimental Offering

Computer Information Science - Security (CISS)

CISS 300 Introduction to Information Systems Security 1 Unit

Prerequisite: None.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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 (Operating Systems) with a grade of "C" or better.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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.
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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.
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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.
Course Transferable to CSU
Hours: 54 hours LEC; 18 hours LAB
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 an 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: None.
Advisory: CISC 320 and CISS 310; with a grade of "C" or better
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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. This course may be taken up to 4 times for recency.

CISS 342 Implementing Linux Operating System Security 3 Units

Prerequisite: None.
Advisory: CISC 323 and CISS 310; with a grade of "C" or better
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
The Linux family of operating systems is prized by developers and other IT professionals for it's 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 you need 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. This course may be taken up to 4 times for recency.

CISS 350 Disaster Recovery 3 Units

Prerequisite: None.
Advisory: CISS 310; with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
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. This course may be taken up to 4 times for recency.

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 II(b)
Course Transferable to CSU
Hours: 54 hours LEC
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: None.
Advisory: CISC 320 and CISS 310; with a grade of "C" or better
Course Transferable to CSU
Hours: 45 hours LEC; 27 hours LAB
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. This course may be taken up to 4 times for recency.

Computer Info Science - Web (CISW)

CISW 304 Cascading Style Sheets 2 Units

Prerequisite: CISW 300 or 320 with a grade of "C" or better.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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
Course Transferable to CSU
Hours: 54 hours LEC
This course is an introduction to the technical aspects of Web site development for 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 since Fall 2004 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.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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.
Course Transferable to CSU
Hours: 72 hours LEC
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.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
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).
Course Transferable to CSU
Hours: 18 hours LEC
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 II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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 II(b)
Course Transferable to CSU
Hours: 54 hours LEC
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 II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
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 II(b)
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 36 hours LEC
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 3 Units

Same As: GCOM 370
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.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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. Credit can be given for either CISW 470 or GCOM 370, but not both.

CISW 499 Experimental Offering in Computer Information Science-Web .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offering

Cosmetology COSM

Associate in Science Degree

Certificate of Achievement

Art and Science of Nail Technology, Certificate of Completion, Level 3

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Cosmetology

Associate in Science Degree
Certificate of Achievement

Program Information
The course of study for Cosmetology is approved by the Board of Barbering and Cosmetology. It is designed to train students to become cosmetologists and, at the same time, students may earn an Associate of Science Degree. The program requires 1600 hours of training in cosmetology and completing a minimum number of operations in order to prepare students in meeting the requirements to sit for the California State Examination for the cosmetology license. The training includes permanent waving, manicuring, hair styling and hair cutting, hair coloring, facial procedures, customer relations, professionalism, and salon business.

Completion of COSM 100 with a "C" grade or better is required for all cosmetology courses. A proof of completion form for COSM 100 will be issued upon successful completion of the course and must be presented on the first day of the next COSM course. In COSM 100, students will be introduced to the field of Cosmetology and Nail Technology (manicuring). The course 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 receive training in customer relations, professionalism, and working with other students.

Procedures: On the first day of COSM 100, students will designate a preference for one of the course offerings options listed below. In the event that too many students select one of the options, a lottery will be held to fill the class. Students who are not selected will have the opportunity to register for their second preference. This process will continue until all courses have been filled.

Fall COSM 110/COSM 111 day

Fall COSM 110/COSM 111 eve

Fall COSM 150 day

Spr COSM 110/COSM 111 day

Spr COSM 110/COSM 111 eve

Spr COSM 150 day

Transfers
Transfer students from another cosmetology or nail technology program (public or private) must complete COSM 100, then COSM 110 and COSM 111 or COSM 150 with grades of "C" or better. After completion of these courses, the student's records will be evaluated for appropriate course placement by the cosmetology faculty.

Program Costs
Approximately $1,000.00 is required at the beginning of the semester for textbooks, kit, and uniforms, personal supplies and materials. Students must purchase the required textbooks, kit and uniforms by the first day of class or they will be dropped from the program for that semester. In addition, there will be costs throughout the cosmetology program for uniforms, program materials, and supplies. The kit, textbooks, and some uniform items are available at the SCC College Store. Students who anticipate that these costs may create a financial burden should consult the Financial Aid Office for possible assistance. Students need to apply for financial aid at least one semester prior to the start of the program.

Career Opportunities
Cosmetologists are employed in every community. Many are self-employed, while others are employed in large or small establishments. It is a lucrative field for both men and women. A cosmetologist may specialize as a platform stylist, color or hair cutting specialist, salon owner or manager, educator, State Board Expert Witness, or travel throughout the world working in the cosmetology industry.

Recommended High School Preparation
Art, anatomy, physiology, chemistry, English and math.

Upon completion of this program, the student will be able to:
- apply technical knowledge and skills related to the cosmetology industry.
- analyze situations in the industry business world, by applying basic knowledge and skills in professionalism and salon management.
- demonstrate hair, skin, and nail techniques and procedures that can be used effectively in the salon workplace.
- demonstrate client consultation skills, heath and safety procedures, industry professionalism.
- formulate, demonstrate, and complete tasks in preparation for the California State Board of Cosmetology written and practical examination.
- demonstrate proper analysis of industry products for use in various phases of the cosmetology industry.

Required Program	Units
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 (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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement may be obtained by completion of the required program with grades of "C" or better. The Cosmetology Certificate of Achievement is covered in three semesters requiring attendance in Cosmetology classes for 32.5 hours a week.

Art and 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.

Certificate of Achievement
The Certificate of Achievement may be obtained by completion of the required program with grades of "C" or better. The Cosmetology Certificate of Achievement is covered in three semesters requiring attendance in Cosmetology classes for 32.5 hours a week.

Cosmetology (COSM)

COSM 100 Introduction to Cosmetology 2 Units

Prerequisite: None.
Hours: 36 hours LEC
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, 111, and 150.

COSM 110 Related Technical Knowledge of the Basic Fundamental Skills 5 Units

Prerequisite: COSM 100 with a grade of "C" or better
Corequisite: Concurrent enrollment in COSM 111.
Hours: 90 hours LEC
This course provides instruction of technical and theoretical knowledge that directly relates to the basic skills of all phases of Cosmetology. The course material includes Bacteriology, Decontamination, Hairstyling, Haircutting, Hair Structure, Massage, Nail Structure, Nail Disease and Disorders, PH Scale, Permanent Waving, Color Wheel, Hair-Coloring, and Hair Lightening.

COSM 111 Basic Foundation of Practical Skills 10 Units

Prerequisite: COSM 100 with a grade of "C" or better.
Corequisite: Concurrent enrollment in COSM 110.
Hours: 540 hours LAB
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

Prerequisite: COSM 110 and 111 with grades of "C" or better
Corequisite: Concurrent enrollment in COSM 121
Hours: 90 hours LEC
This course provides instruction in theoretical knowledge relating to intermediate and advanced levels in all phases of Cosmetology (anatomy and physiology, hair styling, cold waving, manicuring, facials, hair coloring, scalp treatment reconditioning, hair cutting, thermal pressing and curling).

COSM 121 Intermediate Certificate Course - Laboratory 10 Units

Prerequisite: COSM 100, 110, and 111 with grades of "C" or better.
Corequisite: Concurrent enrollment in COSM 120.
Hours: 540 hours LAB
This course provides instruction in technical knowledge relating to intermediate and advanced levels in all phases of cosmetology (anatomy and physiology, hair styling, cold waving, manicuring, facials, hair coloring, scalp treatment reconditioning, hair cutting, thermal pressing and curling.

COSM 130 Advanced-Certificate Course - Theory 5 Units

Prerequisite: COSM 100, 110, 111, 120 and 121 with grades of "C" or better
Corequisite: Concurrent enrollment in COSM 131
Hours: 90 hours LEC
This course encompasses all areas of the theoretical portion of cosmetology relating to the California State Board of Cosmetology 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 the California State Board of Cosmetology Rules and Regulations.

COSM 131 Advanced-Certificate Course - Laboratory 10 Units

Prerequisite: COSM 100, 110, 111, 120, and 121 with grades of "C" or better
Corequisite: Concurrent enrollment in COSM 130
Hours: 540 hours LAB
This course encompasses all areas of the practical portion of cosmetology relating to the California State Board of Cosmetology 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 the California State Board of Cosmetology Rules and Regulations.

COSM 140 Supplemental Training 1-5 Units

Prerequisite: COSM 100 with a grade of "C" or better
Hours: 270 hours LAB
This course provides training in current trends in hair styling, advanced hair coloring, and cold waving. It also satisfies the hours and requirements for re-entering and out-of-state candidates who want to apply for a California Cosmetology license.

COSM 141 Skills Building for Cosmetology 3 Units

Prerequisite: COSM 100, 110, 111, 120, 121, 130, and 131 with grades of "C" or better
Hours: 162 hours LAB
This course provides practice in the following salon services: Wet Hairstyling, Thermal Hairstyling, Press and Curl, Perm Waving, Chemical Straightening, Hair Cutting, Hair Coloring, Bleaching, Scalp & Hair Treatment, Manual, Electrical & Chemical facials, Brow Arch & Wax, Make Up, Manicuring, Pedicuring, 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

Prerequisite: COSM 100 with a grade of "C" or better.
Hours: 198 hours LEC; 270 hours LAB
This is a one-semester course offering beginning, intermediate, and advanced training in manicuring. After completion of this theoretical and operational 400-hour minimum course, students will be eligible to set for the California State 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), basic electric file application, basic airbrushing techniques, nail art and design, and nail salon business.

COSM 151 Art and Science of Nail Technology--Supplemental Hours 5 Units

Prerequisite: COSM 100 and 150 with grades of "C" or better
Hours: 60 hours LEC; 90 hours LAB
This course is taken to fulfill hours and requirements not completed in the COSM 150 course, to be eligible to sit for the California State Board Examination for the manicure license.

COSM 294 Topics in Cosmetology .5-4 Units

Prerequisite: COSM 100 with a grade of "C" or better
Hours: 216 hours LAB
This course reviews the latest California State Board of Cosmetology Acts, Rules, Regulations, Performance Criteria and the latest cosmetology trends, application and procedures. This course may be taken four times for credit provided there is no duplication of topics.

COSM 295 Independent Studies in Cosmetology 1-3 Units

Prerequisite: None.
Hours: 162 hours LAB
This course reviews the latest trends in the cosmetology industry and latest California State Cosmetology Acts, Rules and Regulations. This course may be taken four times for credit provided there is no duplication of topics.

COSM 299 Experimental Offering in Cosmetology .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offering

Dental Assisting DAST

Associate in Science Degree

Certificate of Achievement (One year plus one Summer)

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

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 and a state examination for a special permit to perform advanced orthodontic procedures. In addition to normal student expenses (for textbooks, etc.), the Dental Assisting Program requires an expenditure of approximately $2,230.00 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. The program is also approved by the Dental Board of California and includes special certification courses for the performance of Registered Dental Assisting Expanded Duties and a orthodontic assistant permit.

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.

Enrollment Eligibility
To be eligible for enrollment in the program, the student must meet the following criteria:

- Completion of ENGRD 11 or ESLR 310 with a grade of "C" or better; or placement into ENGRD 110 or ESLR 320 through the assessment process.
- Proof of eligibility can be obtained by either (1) submitting an official college transcript indicating the successful completion of an appropriate level English Reading course or (2) submitting the results of assessment testing which verifies placement in an appropriate level English Reading course.
- High school or college grade point averages are not used to establish eligibility for the dental assisting program.

Enrollment Process
Eligible students are selected for the program according to the following steps:

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.
3. 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.

Upon completion of this program, the student will be able to:
- demonstrate a knowledge, to include didactic, pre-clinical, and clinical, in all aspects of dental practice.
- exhibit knowledge necessary for successful completion of the California Registered Dental Assistant's Examination, the National Certified Dental Assistant's Examination and the California Orthodontic Assistant permit written examination.
- demonstrate and perform all functions allowed by the California State Dental Practice Act.

Dental Assisting

Associate in Science Degree
Certificate of Achievement

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	1.5
DAST 116, Practice Management for Dental Assistant	2
DAST 111, Dental Nutrition and Prevention	1
DAST 115, Advanced Expanded Duty Certifications	2
DAST 112, Chairside Assisting II	3
DAST 117, Dental Imaging	2
DAST 119, Clinical Experience I	3
DAST 129, Clinical Experience II	2
AH 104, Aging and its Implications for Health Care	0.5
Total Units Required	**28**

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement 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

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into the Dental Assisting program and successful completion of an English reading course equal to or greater than ENGRD 11 or ESLR 310; or placement into ENGRD 110 or ESLR 320 through the assessment process.
36 hours LEC
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

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into the Dental Assisting program and successful completion of an English reading course equal to or greater than ENGRD 11 or ESLR 310; or placement into ENGRD 110 or ESLR 320 through the assessment process.
72 hours LEC; 108 hours LAB
This course 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 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

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into the Dental Assisting program and successful completion of an English reading coourse equal to or greater than ENGRD 11 or ESLR 310; or placement into ENGRD 110 or ESLR 320 through the assessment process.
54 hours LEC
This course 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 they relate to the practice of dentistry.

DAST 107 Dental Radiology I 1.5 Units

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into the Dental Assisting program and completion of ENGRD 11 or ESLR 310 with a grade of "C" or better; or placement into ENGRD 110 or ESLR 320 through the assessment process.
9 Hours LEC; 54 hours LAB
Dental Radiology I is an introduction to the basic principles of dental radiology including theory and techniques, operation of the x-ray machine, biological effects, safety practices and the practical application of utilizing appropriate infection control while exposing, processing, mounting, and evaluating intraoral dental films.

DAST 111 Dental Nutrition and Prevention 1 Unit

Prerequisite: DAST 101, 102, 104, and 107 with grades of "C" or better; See enrollment limitations.
Enrollment Limitation: Enrollment in the Dental Assisting program.
12 hours LEC; 36 hours LAB
This course 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

Prerequisite: DAST 101, 102, 104, and 107 with grades of "C" or better.
Enrollment Limitation: Enrollment in the Dental Assisting program.
24 hours LEC; 72 hours LAB
The course entails the study of practical applications of advanced four-handed dental techniques. Instruction in California's "Expanded Duties" is part of the course.

DAST 115 Advanced Expanded Duty Certifications 2 Units

Prerequisite: DAST 101, 102, 104, and 107 with grades of "C" or better
Enrollment Limitation: Enrollment in the Dental Assisting program.
108 hours LAB
This course will provide instruction in 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

Prerequisite: DAST 101, 102, 104, and 107 with grades of "C" or better
Enrollment Limitation: Enrollment in the Dental Assisting program.
36 hours LEC
Practice Management includes the principles of dental office management including: secretarial procedures, record keeping, dental histories, financial arrangements, bookkeeping, insurance procedures, patient communication, patient psychology, and job-finding skills.

DAST 117 Dental Imaging 2 Units

Prerequisite: DAST 101, 102, 104, and 107 with grades of "C" or better
Enrollment Limitation: Enrollment in the Dental Assisting program.
12 hours LEC; 72 hours LAB
Advanced Dental Imaging includes advanced principals in obtaining and processing digital dental images for dental radiology, intra-oral and extra-oral photography for patient assessment and practice enhancement, and obtaining intra-oral images for computer-aided design (CAD) milled restorations, including manipulation and fabrication.

DAST 119 Clinical Experience I 3 Units

Prerequisite: DAST 101, 102, 104, and 107 with grades of "C" or better.
Enrollment Limitation: Enrollment in the Dental Assisting program.
240 hours LAB
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

Prerequisite: DAST 111, 112, 115, 116, 117, and 119 with grades of "C" or better.
Enrollment Limitation: Enrollment in the Dental Assisting program.
108 hours LAB
This course involves performance of basic dental assisting duties as well as expanded duties in an assigned dental clinic or private office during 105 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.

DAST 295 Independent Studies in Dental Assisting 1-3 Units

Prerequisite: None
Enrollment Limitation: Student must be enrolled in the Dental Assisting program.
162 hours LAB
This is a course for those dental assisting students requesting special projects related to their dental assisting education.

DAST 299 Experimental Offering in Dental Assisting .5-4 Units

See Experimental Offering

Dental Hygiene DHYG

Associate in Science Degree

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

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 in 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 over $4,900 during the two-year program for uniforms, instruments, and special supplies. More than $3,500 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.

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.

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 or NUTRI 300, 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, with a grade of "C" or better, 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. Courses taken for Credit/No Credit (C/NC) will be calculated into GPAs as a "C" grade.

Enrollment Process
Applications for enrollment and official transcripts supporting completion of prerequisite courses must be submitted to the Science and Allied Health Division by the posted due date. Enrollment applications and deadlines are available from the Science & Allied Health Division Office (Mohr Hall, Room 18 or 558-2271) or the SCC website at http://www.scc.losrios.edu/~dental/.

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.

High school and college preparatory courses including algebra, biology, chemistry, and physiology are recommended.

Dental Hygiene

Associate in Science Degree

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)	3
or NUTRI 300, 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**

Associate in Science (A.S.) Degree
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.

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.

Dental Hygiene (DHYG)

DHYG 100 Introduction to Dental Hygiene .5 Unit

Prerequisite: None
9 hours LEC
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

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into 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 LEC; 108 hours LAB
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

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into 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.
18 hours LEC
Oral Histology and Embryology is the study of microscopic tissues and structures of the teeth, periodontium, and oral cavity as related to the clinical practice of dental hygiene. Extra time outside the normal school schedule may be required for professional meetings.

DHYG 104 Patient Education and Nutrition 2 Units

Prerequisite: See enrollment limitations
Enrollment Limitation: Acceptance into 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 LEC
This course studies the principles and practices of preventing and controlling dental disease with emphasis on nutrition, plaque control, motivation, and chairside patient education.

DHYG 107 Dental Morphology 1.5 Units

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into 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.
18 hours LEC; 27 hours LAB
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

Prerequisite: See enrollment limitations.
Enrollment Limitation: Acceptance into 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.
9 hours LEC
This course emphasizes the legal and ethical aspects of infectious disease transmission and their 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

Prerequisite: DHYG 101, 103, 104, 107, and 109 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
36 hours LEC; 108 hours LAB
This is the clinical practice of oral prophylaxis through practical applications of procedures learned in DHYG 101. In clinic, students demonstrate various procedures on each other before applying them to patients: children over 5 years old and young 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

Prerequisite: DHYG 101, 103, 104, 107, and 109 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
36 hours LEC
This is a course in periodontics which includes the identification of the normal periodontium and recognition of deviations from normal. It includes the etiology and principles of periodontal disease, examination procedures, treatment, and preventive measures.

DHYG 113 Embryology- Head and Neck Anatomy 2 Units

Prerequisite: DHYG 101, 103, 104, 107, and 109 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
36 hours LEC
This is a course of oral anatomy designed for the study of the head and neck structures or group of structures in relation to their function for the clinical practice of dental hygiene especially the areas pertaining to local anesthesia. Extra time outside of class may be required for professional meetings.

DHYG 117 Dental Radiology 3 Units

Prerequisite: DHYG 101, 103, 104, 107, and 109 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
36 hours LEC; 54 hours LAB
Topics in this course include 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, and community projects.

DHYG 121 Clinical Dental Hygiene II 2 Units

Prerequisite: DHYG 111, 112, 113, and 117 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
96 hours LAB
This 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

Prerequisite: DHYG 111, 112, 113, and 117 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
18 hours LEC; 54 hours LAB
This course 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

Prerequisite: Completion of DHYG 121 with a grade of "C" or better.
216 hours LAB
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

Prerequisite: DHYG 121 and 127 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
54 hours LAB
This course 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

Prerequisite: DHYG 121 and 127 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
18 hours LEC; 54 hours LAB
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 completion of community projects.

DHYG 135 Clinic Seminar 1 Unit

Prerequisite: DHYG 121 and 127 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
18 hours LEC
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

Prerequisite: DHYG 121 and 127 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
36 hours LEC
This course is the introduction to general pathology with a special emphasis on oral pathology.

DHYG 139 Pharmacology 2 Units

Prerequisite: DHYG 121 and 127 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
36 hours LEC
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

Prerequisite: DHYG 131, 132, 134, 135, 138, and 139 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
216 hours LAB
This course 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

Prerequisite: DHYG 131, 132, 134, 135, 138, and 139 with grades of "C" or better
Enrollment Limitation: Enrollment in the dental hygiene program.
54 hours LAB
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. There will be presentations from outside speakers. Extra time outside the normal school schedule is required for students to participate in such activities as dental health faire screenings.

DHYG 149 Ethics, Jurisprudence and Dental Hygiene Practice 2 Units

Prerequisite: DHYG 131, 132, 143, 135, 138, and 139 with grades of "C" or better.
Enrollment Limitation: Enrollment in the Dental Hygiene Program.
36 hours LEC
This course 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 to complete projects and assignments.

DHYG 295 Independent Studies in Dental Hygiene 1-3 Units

Prerequisite: See enrollment limitations.
Enrollment Limitation: Enrollment in the Dental Hygiene program.
162 hours LAB
This course is designed to provide a mechanism for current dental hygiene students to complete independent studies in dental hygiene education.

DHYG 299 Experimental Offering in Dental Hygiene .5-5 Units

See Experimental Offering

Early Childhood Education ECE

Associate in Arts Degree

Certificate of Achievement

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

Early Childhood Education, Degree and Certificate of Achievement

Associate Teacher, Certificate of Completion, Level 3

Teacher, Certificate of Achievement

Master Teacher, Degree and Certificate of Achievement

Site Supervisor, Degree

Infant Care and Education, Degree

Infant Care and Education Teacher, Certificate of Achievement

School-Age Care and Education, Degree

School-Age Care and Education Teacher, Certificate of Achievement

Family Child Care, Certificate of Completion, Level 3

School-Age Assistant Teacher, Certificate of Completion, Level 2

School-Age Associate Teacher, Certificate of Completion, Level 3

School-Age Master Teacher, Certificate of Achievement

School-Age Site Supervisor, Degree

Program Information

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. 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) although actual experience in a program may be required. 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. Please see the ECE coordinator for more information. 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.

Early Childhood Education

Associate in Arts Degree
Certificate of Achievement

Program Information
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 California Commission or Teacher Credentialing 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 Education are eligible for employment at many levels in the diverse early care and education field. Students who successfully complete this program may serve as teachers or with the appropriate administration classes as a director in a privately owned setting. The A.A. degree also prepares graduates 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in early care and education settings.
- supervise assistants and aides in private early care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher permit.
- create a developmentally appropriate learning environment for children in early care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for early care and education settings.
- recognize the importance of early childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their early care and education setting.
- recognize and respect the diversity of children and families in their early care and education program.

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 Principles and Practices 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)	
FCS 346 Children's Health, Safety and Nutrition (3)	
or ECE 415 Children's Health, Safety and Nutrition (3)	
ECE 320 Curriculum and Interactions in Early Childhood Education	4
ECE 321 Advanced Practicum in Early Childhood Education	4
ECE 400 Children with Exceptional Needs (3)	3
or ECE 404 Children with Special Needs (3)	
or ECE 402 Infants with Atypical Development (3)	
ECE 430 Culture and Diversity in 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)	
Total Units Required	**27**

Suggested Electives
ECE 305, 323, 330, 331, 350, 356, 358, 420, 422, 424, 450, 498; ENGLT 370.

Associate in Arts (A.A.) Degree
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.

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

Associate Teacher

Certificate of Completion, Level 3

Program Information
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, students who successfully complete this program 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in an early care and education setting.
- supervise an Assistant Permit holder or an aide.
- identify, select, and apply developmentally appropriate practices in early care and education settings.
- maintain and assemble the environment of an early care and education setting for optimal learning and the development of the children.
- plan and develop curriculum that meets the individual and developmental needs of the children in their specific settings.

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 300 Introduction to Principles and Practices in Early Childhood Education (3) or ECE 320 Curriculum and Interactions in Early Childhood Education (4)	
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)	
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
Certificate of Achievement

Program Information
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 Permit 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 Certificate of Achievement, the G.E requirements, 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, students who successfully complete this program 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in early care and education settings.
- supervise assistants and aides in private early care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher Permit.
- create a developmentally appropriate learning environment for children in early care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for early care and education settings.
- recognize the importance of early childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their early care and education setting.
- recognize and respect the diversity of the cultures of children and families in their early care and education program.

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 Principles and Practices 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)	
FCS 346 Children's Health, Safety and Nutrition (3) or ECE 415 Children's Health, Safety, and Nutrition (3)	
ECE 320 Curriculum and Interactions in Early Childhood Education	4
ECE 321 Advanced Practicum 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**

Certificate of Achievement
The requirements for the Teacher Certificate of Achievement 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 Certificate of Achievement 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
Certificate of Achievement

Program Information
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 or Certificate of Achievement 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, students who successfully complete this program are eligible for the Master Teacher Permit which makes them eligible for positions in state funded programs. The Master Teacher Permit is required to apply to the California Early Childhood Mentor Teacher Program to become mentors for less experienced staff. Graduates of the program 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in early care and education settings.
- supervise assistants and aides in private early care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher permit, supervise students in the role of a mentor teacher.
- create a developmentally appropriate learning environment for children in early care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for early care and education settings.
- recognize the importance of early childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their early care and education setting.
- recognize and respect the cultural diversity of the children and families in their early care and education setting.
- demonstrate knowledge and skills in an area of specialization within early childhood education.

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 Principles and Practices in 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)	
FCS 346 Children's Health, Safety and Nutrition (3)	
or ECE 415 Children's Health, Safety and Nutrition(3)	
ECE 320 Curriculum and Interactions in Early Childhood Education	4
ECE 321 Advanced Practicum 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

The specialization for the Master Teacher AA Degree should be one course from ECE on a topic and one other course that is complimentary. The second course may be from any department. Please see the ECE faculty to plan your specialization.

Total Units Required 35

Suggested Electives
ECE 305, 323, 330, 331, 350, 356, 358, 420, 422, 450, 498; ENGLT 370.

Associate in Arts (A.A.) Degree
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.

Certificate of Achievement
The requirements for the Master Teacher Certificate of Achievement 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 Certificate of Achievement 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

Program Information
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 within the last four 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. Students who complete the program may serve as teachers or as directors in privately owned settings. With the Site Supervisor Permit from the California Commission or Teacher Credentialing students who successfully complete this program would be eligible to supervise a single site of a state funded program. Graduates 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in early care and education settings.
- supervise a child care and development program operating at a single site, provide service in the care, development, and instruction of children in a child care and development program; and serve as coordinator of curriculum and development.
- supervise assistants, aides, and teachers in private early care and education settings, supervise Assistant, Associate, Teacher, and Master Teacher Permit holders if they hold the Site Supervisor Permit.
- create a developmentally appropriate learning environment for children in early care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for early care and education settings.
- recognize the importance of early childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.

- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their early care and education setting.
- recognize and respect the diversity of children and families in their early care and education program.
- proiritize, organize and manage the logistics of an early care and education setting including staff training, evaluation, budget,and public relations.
- facilitate and support the professional development of staff under their supervision.

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 Principles and Practices 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) or FCS 346 Children's Health, Safety and Nutrition (3)	
ECE 320 Curriculum and Interactions in Early Childhood Education	4
ECE 321 Advanced Practicum 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 305, 323, 330, 331, 350, 356, 358, 450, 498; ENGLT 370.

Associate in Arts (A.A.) Degree
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.

Infant Care and Education

Associate in Arts Degree

Program Information
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 degree holders 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in early care and education settings with a special emphasis in working with children from birth to three years of age.
- supervise assistants and aides in private early care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher Permit.
- create a developmentally appropriate learning environment for children in early care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for early care and education settings.
- recognize the importance of early childhood (emphasis on infancy) as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their care.
- distinguish the unique needs of children less than three years of age from those older in areas of health, safety, environmental design, curriculum design, and social and emotional support.
- support parents of diverse cultures in the parent/child relationship and the parent's knowledge of child development and care.

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 Principles and Practices 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 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 346 Children's Health, Safety and Nutrition (3) or 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 (or FCS 346), 420, 422, 424, 498; ENGLT 370.

Associate in Arts (A.A.) Degree
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.

Infant Care and Education Teacher
Certificate of Achievement

Program Information
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, students who successfully complete this program 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in early care and education settings with a special emphasis in working with children from birth to three years of age.
- supervise assistants and aides in private early care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher Permit.
- create a developmentally appropriate learning environment for children in early care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for early care and education settings.
- recognize the importance of early childhood (emphasis on infancy) as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their care.
- distinguish the unique needs of children less than three years of age from those older in areas of health, safety, environmental design, curriculum design, and social and emotional support.
- support parents of diverse cultures in the parent/child relationship and the parent's knowledge of child development and care.

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 Principles and Practices 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 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) or FCS 346 Children's Health, Safety and Nutrition (3)	
Total Units Required	**28**

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

School-Age Care and Education
Associate in Arts Degree

Program Information
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 California Commission or Teacher Credentialing 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.

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. Graduates may serve as teachers or with the appropriate administraion classes as directors in privately owned settings. Students who successfully complete this program 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.

In addition, Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in school-age care and education settings.
- supervise assistants and aides in private early care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher permit.
- create a developmentally appropriate learning environment for children in school-age care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for school-age care and education settings.
- recognize the importance of childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their care and education setting.
- recognize and respect the diversity of children and families in their care and education program.
- integrate the activities of a before or after school program with the school day activities for the children in their program.

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 Curriculum and Interactions 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 (3) or FCS 346 Children's Health, Safety and Nutrition (3)	
Total Units Required	**32**

Suggested Electives
ECE 190, 300, 305, 322, 323, 330, 342, 343, 344, 360, 362, 404, 415 (or FCS 346), 420, 422, 424, 498; ENGLT 370.

Associate in Arts (A.A.) Degree
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

Certificate of Achievement

Program Information
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 Certificate of Achievement 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 California Commission or Teacher Credentialing.

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 students who successfully complete this program 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.

In addition Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in school-age care and education settings.
- supervise assistants and aides in private school-age care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher Permit.
- create a developmentally appropriate learning environment for children in school-age care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for school-age care and education settings.
- recognize the importance of childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their school-age care and education setting.
- recognize and respect the diversity of the cultures of children and families in their early care and education program.
- integrate the activities of before or after-school programs with the activities and academic work of the children's school day.

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 Curriculum and Interactions in Early Childhood Education (4)
ECE 321 Advanced Practicum 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 (3)
or FCS 346 Children's Health, Safety and Nutrition (3)

Total Units Required **25**

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

Family Child Care
Certificate of Completion, Level 3

Program Information
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

Upon completion of this program, the student will be able to:
- research the feasibility of opening a family child care business in their home.
- design the policy and regulations for their family child care home.
- organize and plan a developmentally appropriate program for the children attending the family child care home.
- operate within the regulations of the Department of Social Services, Community Care Licensing for their family child care home.
- explain and describe to their potential clients the learning outcomes for the children attending their family child care home.
- supervise and guide assistants.

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 Principles and Practices in Early Childhood Education (3)
or ECE 498 Work Experience in Early Childhood Education (1 -4) 1-4
ECE 320 Curriculum and Interactions 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.

School-Age Assistant Teacher
Certificate of Completion, Level 2

Program Information
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. Students 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children from kindergarten through age 14.
- work with children under the direct supervision of a more qualified staff member.
- identify, select, and apply developmentally appropriate practices in early care and education settings.

Required Courses	Units
ECE 312 Child Development (3) or FCS 312 Child Development (3)	3
ECE 358 Activities for the School-Age Child (Six to Fourteen Years)	3
ECE 410 Health & Safety in Child Care Settings (1) or HEED 330 Health & Safety in Child Care Settings (1)	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 3

Program Information
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 the California 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 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 students who successfully complete this program 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.

In addition Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children from the kindergarten through age 14 in a school-age care and education setting.
- supervise an Assistant Permit holder if they obtain the School-Age Associate Teacher Permit or an aide in a private school-age care and education setting.
- identify, select, and apply developmentally appropriate practices in school-age care and education settings.
- maintain and assemble the environment of a school-age care and education setting for optimal learning the development of the children.
- plan and develop curriculum that meets the individual and developmental needs of the children in their specific settings.

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.

School-Age Master Teacher
Certificate of Achievement

Program Information
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 Certificate of Achievement 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 students who successfully complete this program are eligible for the Master Teacher Permit with the School-Age emphasis which makes them eligible for positions in state funded programs. Students who successfully complete this program 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in school-age care and education settings.
- supervise assistants and aides in private early care and education settings, supervise Assistant and Associate Permit holders if they hold the Teacher permit, supervise students in the role of a mentor teacher.
- create a developmentally appropriate learning environment for children in school-age care and education settings.
- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for school-age care and education settings.
- recognize the importance of childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their care and education setting.
- recognize and respect the cultural diversity of the children and families in their care and education setting
- integrate the activities of a before or after school program with the school day activities for the children in their program

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)	1
ECE 320 Curriculum and Interactions 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
A minimum of 6 units from the following: The specialization for the School-Age Master Teacher Certificate should be one course from ECE on a topic and one other course that is complimentary. The second course may be from any department. Please see the ECE faculty to plan your specialization.	6
Total Units Required	**34**

Certificate of Achievement
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 Certificate of Achievement 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 within the last four 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. Students who successfully complete this program 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 or Teacher Credentialing individuals 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

Upon completion of this program, the student will be able to:
- provide service in the care, development, and education of children in school-age care and education settings.
- supervise a child care and development program operating at a single site, provide service in the care, development, and instruction of children in a child care and development program; and serve as coordinator of curriculum and development.
- supervise assistants.aides, and teachers in private care and education settings, supervise Assistant, Associate, Teacher, and Master Teacher Permit holders if they hold the Site Supervisor Permit.
- create a developmentally appropriate learning environment for children in school-age and early care and education settings.

- assess the development of children for the purposes of curriculum planning and implementation, compare and contrast the development of typical children to those with atypical development.
- demonstrate knowledge of best practices in guidance, curriculum selection, and health and safety for school-age and early care and education settings.
- recognize the importance of childhood as a unique time in children's development that requires specialized developmentally appropriate activities, routines, interactions, and guidance.
- distinguish developmentally appropriate practices from other types of teaching strategies.
- cite and define the developmental learning outcomes of activities offered to children in their early care and education setting.
- recognize and respect the diversity of children and families in their care and education program.
- prioritize, organize and manage the logistics of a multiple age care and education setting including staff training, evaluation, budget,and public relations.
- assist and facilitate the staff's integration of before and after school activities with the children's school day program.
- facilitate and support the professional development of staff under their supervision.

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) or FCS 346 Children's Health, Safety and Nutrition (3)	
ECE 450 Science Activities for School-Age Children	3
ECE 320 Curriculum and Interactions 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 305, 321, 322, 323, 330, 331, 342, 343, 344, 360, 362, 404, 415, 498; ENGLT 370.

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.

Early Childhood Education (ECE)

ECE 104 Parenting Workshop 1 Unit

Prerequisite: None.
Hours: 18 hours LEC
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 is designed as four separate modules and may be taken four times for credit providing there is no duplication of modules.

ECE 106 Parenting Through Participation 1 Unit

Prerequisite: None.
Hours: 54 hours LAB
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 taken four times for credit.

ECE 190 The Art of Storytelling and Expressive Listening 2 Units

Prerequisite: None.
Hours: 36 hours LEC
This course introduces students to storytelling in both its traditional and contemporary uses. The effective use of oral language for sharing stories, myths, epics, legends, and fables in and out of the classroom will be developed. Time will be spent on improvisational storytelling, tandem and group storytelling, and group participation storytelling.

ECE 294 Topics in Early Childhood Education .5-4 Units

Prerequisite: None.
Hours: 72 hours LEC
This course is designed to give students an opportunity to study topics in Early Childhood Education which are not included in current offerings. The course may be repeated for credit up to four times providing there is no duplication of topics. The course requires 18 hours lecture or 54 hours lab for each unit of credit.

ECE 295 Independent Studies in Early Childhood Education 1-3 Units

Prerequisite: None
Hours: 54 hours LEC; 54 hours LAB
See Independent Studies.

ECE 299 Experimental Offering in Early Childhood Education .5-4 Units

Prerequisite: None
Hours: 54 hours LEC
See Experimental Offerings.

ECE 300 Introduction to Principles and Practices in Early Childhood Education 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course is an introduction to early childhood education, including an overview of the history of the field, evolution of professional practices and ethics, educational principles that support child development from birth through the school-age years, and teaching practices based on observation, documentation, and interpretation of children's behavior.

ECE 305 Introduction to Family Child Care 1 Unit

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC
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 3 Units

Same As: FCS 312
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 V(b); CSU Area D9; CSU Area E1; IGETC Area 4G; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, but not both.)

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 or ECE 312; and LIBR 318 with grades of "C" or better
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D7; CSU Area E1; IGETC Area 4G; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an examination of the developing child in a societal context focusing on the interrelationship of family, school, and community and emphasizing historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. 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. (Students may receive credit for ECE 314, FCS 314, or SOC 312, maximum one course.)

ECE 320 Curriculum and Interactions in Early Childhood Education 4 Units

Prerequisite: ECE 300, ECE 312, or FCS 312 with a grade of "C" or better
Enrollment Limitation: Students must show proof of negative T.B. test prior to participating in the lab.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
In this supervised field experience course, students are enrolled in both a lecture and lab section. During weekly in-class meetings with the instructor, students are presented the developmentally appropriate theory which grounds curriculum and interactions in high quality early childhood education classrooms. Students are required to attend a lab section each week where they have the opportunity to apply and practice what they are learning in the lecture section. Topics include principles of curriculum development, classroom design,and child guidance. 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 sites. (108 hours of laboratory experience are required for completion.)

ECE 321 Advanced Practicum in Early Childhood Education 4 Units

Prerequisite: ECE 320 with a grade of "C" or better
Enrollment Limitation: Students must show proof of negative T.B. test prior to participating in the lab.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
This advanced practicum course provides supervised field experience in an early childhood education program. Students will participate as teachers in a classroom with young children and attend weekly lectures. Students will plan and implement long-term curriculum projects with young children, applying their skills in observation, assessment, documentation, and interpretation of children's work. Students will develop and supervise the overall setting for learning and demonstrate skill in guiding children's behavior, managing groups, and building relationships with children and families. Students will be assigned to the Campus Child Development Center or selected schools for supervised laboratory practicum.

ECE 322 Promoting Children's Social Competence 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course is designed for teachers in early education programs to promote positive guidance methods. It is based on supporting 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 typical and atypical development, culture, and environment will be presented. Parents of young children may also find the course of value.

ECE 323 The Effective Parent-Teacher 3 Units

Prerequisite: None.
Advisory: Completion of ENGWR 100 or ENGRD 310 with a grade "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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. The importance of providing quality child care for children, including children with special needs, will also be addressed.

ECE 326 Making Learning Visible Through Observation and Documentation 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course applies critical and reflective thinking to observation and assessment of young children's development. It prepares teachers of young children to use observation, documentation, and interpretation strategies to improve program quality in early childhood settings. Multiple forms of child assessment and early childhood program assessment are explored.

ECE 330 Infant Development 3 Units

Prerequisite: None.
Advisory: ENGRD 110, ENGWR 100, and LIBR 318; with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course is an examination of the development of children from conception to three years of age. The course includes information on the unique brain development that occurs during the first three years of life in typically developing infants. The course presents research on physical, social, emotional, cognitive, and language development to assist parents and professionals understand the importance of infancy in human development.

ECE 331 Education and Care of Infants in Group Settings 3 Units

Prerequisite: ECE 312, ECE 330, or FCS 312 with a grade of "C" or better
Enrollment Limitation: Students must show proof of negative T.B. test prior to participating in the lab.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 or 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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
The course is an introduction to the constructivist approach to teaching mathematics 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. The course introduces concepts aligned with California Preschool Learning Foundations in Mathematics.

ECE 343 Language and Literacy Development in Early Childhood 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course will prepare early childhood educators to recognize, understand, and enhance the emergent language and literacy experiences of young children. The knowledge of developmentally appropriate language and literacy instructional practices will improve early childhood educators' abilities to support young children from birth to age 5 in building a strong foundation for learning to use language, both spoken and written, in the primary grades.

ECE 344 Principles of Pre-School Skills Building: Planning Creative Play Environments 3 Units

Prerequisite: None.
Advisory: ENGWR 100 or ENGRD 310 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course is a study of the function and influence of the early childhood environment in supporting children's growth and development. The course will help students plan safe, developmentally appropriate play environments that promote active learning for young children. It will also cover the importance of fostering child-child and adult-child interactions in the environment. Students will be able to analyze the use of physical indoor and outdoor space in early childhood settings to implement program goals and philosophy.

ECE 350 Introduction to Elementary Teaching with Field Experience 3 Units

Prerequisite: None.
Advisory: FCS 312 or ECE 312 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FCS 312 or ECE 312; and FCS 314 or ECE 314 or SOC 312; and LIBR 318 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
Students will be introduced to the fundamentals of planning, implementing, and evaluating programs for the before- and after-school care of school-age children (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

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FCS 312 or ECE 312; and FCS 314 or ECE 314 or SOC 312; and ECE 356; and LIBR 318 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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. Children's use of creative arts to represent their experiences and feelings will be examined as a developmental stage in the use of symbols and the development of literacy. 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

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course provides the fundamentals of music for early childhood professionals working with children from infancy through early childhood. Theoretical perspectives are blended with practical classroom applications. The use of music and movement to develop pre-academic skills, in classroom management, for community building, and to facilitate transitions will be presented. The course explores the place of children's music and movement in various cultures and traditions and teaches how to involve children in the diversity of musical traditions.

ECE 400 Children with Exceptional Needs 3 Units

Prerequisite: ECE 312 or FCS 312 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course is an overview of the developmental issues, characteristics, and learning differences of children from birth to adolescence with exceptional needs, including gifted and talented. 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 Development 3 Units

Prerequisite: None.
Advisory: ECE 330 and ECE 312 or FCS 312 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course is designed to acquaint the student with the characteristics of atypical infant assessment procedures and techniques for intervention in the developmental 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: ECE 312 or FCS 312 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
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 1 Unit

Same As: HEED 330
Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC
This course covers 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, and emergency preparedness and evacuation. This course meets requirements of mandated training for child care providers. (Student may receive credit for ECE 410 or HEED 330, but not both).

ECE 415 Children's Health, Safety and Nutrition 3 Units

Same As: FCS 346 and NUTRI 320
Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318; and MATH 34; and ECE 410 or HEED 330; and FCS 312 or ECE 312; and FCS 314 or ECE 314 or SOC 312; and NUTRI 300 with grades of "C" or better
General Education: AA/AS Area III(b); CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
The key components that ensure the health, safety, and nutrition of both children and staff will be identified along with the importance of collaboration with families and health professionals. Students will be introduced to early childhood curriculum, regulations, standards, policies, and procedures related to child health, safety, and nutrition. Course emphasis is placed on integrating and maintaining the optimal health, safety, and nutritional concepts in everyday planning and program development for all children. Projects related to health, safety, and nutrition education as well as optional field trips may be included as part of the curriculum. (Students may receive credit for exactly one of the following: ECE 415, FCS 346, or NUTRI 320.)

ECE 420 Administration of Child Development Centers 3 Units

Prerequisite: ECE 300 and ECE 312, same as FCS 312, with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This is an introductory course in the elements of program planning, legal requirements, supervision and personnel administration for early childhood education and care facilities that serve families and children. The emphasis in this course is on privately funded facilities licensed under the Department of Social Services Community Care Licensing, Title 22, Health and Safety Code.

ECE 422 Advanced Coordination and Supervision of Child Development Programs 3 Units

Prerequisite: ECE 320 or 420 with a grade of "C" or better
Advisory: At least one year of experience working with children in a child care and development program.
Course Transferable to CSU
Hours: 54 hours LEC
This is an advanced course in the administration and coordination of multi-faceted Child Development Programs. The focus of the course will be programs funded with public money or administered 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, California Site Supervisor Permit.

ECE 424 Adult Supervision: Mentoring in a Collaborative Learning Setting 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC
This course is a study of the methods and principles of the collaborative learning approach with emphasis on supervising teachers in early childhood education. 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

Prerequisite: None.
Advisory: ENGWR 100, and FCS 312 or ECE 312 with grades "C" or better
General Education: AA/AS Area VI
Course Transferable to CSU
Hours: 54 hours LEC
This course covers culturally responsive care and education in early childhood settings. It includes the study of socio-cultural issues as they vary across the diverse cultures represented in the classroom and as they impact a child's development. Included are strategies for helping children negotiate and resolve conflicts caused by cultural differences, with a focus on using an anti-bias approach in the classroom.

ECE 450 Science Activities for School-Age Children 3 Units

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318; and ECE 356; and ECE 358; and FCS 312 or ECE 312; and FCS 314 or ECE 314 or SOC 312; and MATH 34 with grades of "C" or better
Enrollment Limitation: Current TB clearance.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 455 Environment Rating Scales in Early Childhood Programs 1 Unit

Prerequisite: None.
Course Transferable to CSU
Hours: 18 hours LEC
This course examines Environment Rating Scales (Infant/Toddler, Early Childhood, School Age Programs and Family Child Care) as tools for quality improvement in a variety of child development programs. Emphasis is given to theory and best practices in order to evaluate classrooms, materials, and interactions between adults and children.

ECE 495 Independent Studies in Early Childhood Education 1-3 Units

Prerequisite: ECE 312 wiht a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 162 hours LEC
Independent Studies in Early Childhood Education offers students the opportunity to explore topics and interests that are not available through a current semester's regular course offerings. Students must have a faculty member willing to support and evaluate the student's progress towards the student's learning objectives. This course may be taken for credit up to four times.

ECE 498 Work Experience in Early Childhood Education 1-4 Units

Prerequisite: None.
Advisory: ENGRD 110 and ENGWR 100 with grades of "C" or better.
Enrollment Limitation: Employment or volunteer work in a position related to Early Childhood Education and enrolled in a minimum for 7 units which may include Work Experience in Early Childhood Education. Students must show proof of negative T.B. test prior to employment or volunteering in an early care and education program according to the state requirements for licensed out of home care for children.
Course Transferable to CSU
Hours: 18 hours LEC; 162 hours LAB
This course provides work experience in early childhood settings, primarily child care and development centers, with opportunities to work with children, infancy through the school age years. By combining volunteer or paid work experience with college training, jobs are used as earning settings and together with the employer and college instructor establish learning objectives for the semester. Enrollment is dependent on employment or on availability of voluntary work placement. 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. This course may be taken four times for a maximum of eight units.

ECE 499 Experimental Offering in Early Childhood Education .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Economics ECON

Division of Business
Shirley Short, Dean
Business Building 213
916-558-2581

ECON 100 Introduction to Economics 3 Units

Prerequisite: None.
General Education: AA/AS Area V(b)
Hours: 54 hours LEC
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 299 Experimental Offering in Economics .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
See Experimental Offerings

ECON 302 Principles of Macroeconomics 3 Units

Prerequisite: None.
Advisory: Full year of high school Algebra II or MATH 120 with grades of "C" or better.
General Education: AA/AS Area V(b); CSU Area D2; IGETC Area 4B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, incomes, national debt, and balance of trade.

ECON 304 Principles of Microeconomics 3 Units

Prerequisite: None.
Advisory: Full year of high school Algebra II or MATH 120 with grades of "C" or better.
General Education: AA/AS Area V(b); CSU Area D2; IGETC Area 4B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: MATH 120 with a grade of "C" or better; or one full year of High School Algebra II with grades of "C" or better in each semester; or through the assessment process
General Education: AA/AS Area II(b); IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course covers the collection, presentation, analysis, and interpretation of numerical data. Statistical analysis will include central tendency, variation, probability, sampling, inference, analysis of variance, linear regression, and correlation.

ECON 330 Investments and Financial Management 3 Units

Same As: BUS 325
Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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. Credit may be awarded for ECON 330 or BUS 325, but not for both.

ECON 495 Independent Studies in Economics 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

ECON 499 Experimental Offering in Economics .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
See Experimental Offerings

Electric Vehicle Technology EVT

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Electric Vehicle Technology (EVT)

EVT 100 Introduction to Electric Vehicles 3 Units

Prerequisite: None.
Hours: 54 hours LEC
This course will provide an overview of the electric vehicle and hybrid technology. The topics covered will include electric vehicle technology, hybrid technology, economics, regulations, environmental impact, and safety.

EVT 110 Introduction to Electric Vehicle Conversions 4 Units

Prerequisite: None.
Hours: 54 hours LEC; 54 hours LAB
This course will cover the theory and actual conversion of an internal combustion engine (ICE) to a battery powered electric vehicle. Topics to be covered are the process of conversion of an ICE vehicle to electric power, to include modifications, assembly, operation, testing and general maintenance of electric vehicles.

EVT 130 Electric Vehicle Batteries 3 Units

Prerequisite: None.
Hours: 54 hours LEC
This course introduces students to current battery technology as it relates to electric vehicles. Students will be instructed on the various types of batteries found in automobiles, motorcycles, aircraft and marine batteries. Emphasis will be placed on battery theory, safety, handling, construction and maintenance.

Electronics Technology ET

Associate in Science Degree

Certificate of Achievement

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Automated Systems Technician, Degree and Certificate of Achievement

Electronics Facilities Maintenance Technician, Degree and Certificate of Achievement

Microcomputer Technician, Degree and Certificate of Achievement

Telecommunications Technician, Degree and Certificate of Achievement

Electronics Mechanic, Certificate of Achievement

Career Opportunities
The Electronics Technology Program consists of five major career preparation options:

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

Telecommunications Technician: Designed to prepare students for employment in the calibrating, testing, repair and maintenance of electronic communications equipment.

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.

Automated Systems Technician

Associate in Science Degree
Certificate of Achievement

Career Opportunities
This program is designed for students pursuing employment in the programming, testing, repair, and maintenance of digital and analog computer controlled systems.

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.

Upon completion of this program, the student will be able to:
- demonstrate safe work practices for automated systems equipment.
- demonstrate the proper use of basic test equipment to include DMM, oscilloscopes, and digital or analog signal sources.
- use a standard schematic diagram of an automated system to identify its digital or analog parts.
- explain common automated systems terminology for digital and analog devices.
- estimate automated system circuit performance using mathematical tools.
- analyze and compare calculated automated system circuit performance to actual performance.
- measure common automated system parameters using appropriate test equipment.
- set up and install basic automated system equipment
- design proper preventive maintenance, calibration and system testing procedures for automated equipment.
- perform proper preventive maintenance, calibration and system testing on automated equipment.

- diagnose common automated system failures down to the source of the problem.
- solve automated system problems by replacing failed hardware or software parts.

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

Associate in Science (A.S.) Degree
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.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement

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.

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.

Upon completion of this program, the student will be able to:
- demonstrate safe work practices for electronic facilities equipment.
- demonstrate the proper use of electronic test equipment to include DMM, oscilloscopes, signal sources and supplies.
- use a standard schematic diagram of an electronic system to identify and test its parts.
- explain common electronic facilities systems terminology
- estimate electronic facilities circuit performance using mathematical tools.
- analyze and compare calculated electronic facilities circuit performance to actual performance.
- measure common electronic facilities circuit parameters using appropriate test equipment.
- set up and install basic electronic facilities system equipment.
- design proper preventive maintenance, calibration and system testing procedures for facilities equipment.
- perform proper preventive maintenance, calibration and system testing on electronic facilities equipment.
- diagnose common electronic system failures down to the source of the problem.
- solve electronic system problems by replacing failed hardware or software parts.

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, 355; CISN 300, EDT 310, 352; ET 490

Associate in 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. See SCC graduation requirements.

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

Microcomputer Technician

Associate in Science Degree
Certificate of Achievement

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.

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.

Upon completion of this program, the student will be able to:
- use the operating system on a personal computer to manipulate files and folders.
- use the operating system on a personal computer to configure hardware and applications.
- explain common computer terminology used in computer information science and electronics technology.
- diagnose common computer errors that occur because of hardware, software, or network problems.
- predict common computer error solutions in hardware, software, or network systems.
- resolve common computer errors that occur in hardware, software, or network 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)	1
or CISC 323 Linux Operating System (1)	
CISA 310 Introduction to Electronic Spreadsheets	1
CISA 311 Intermediate Electronic Spreadsheets	1
CISA 323 Database Management using Microsoft Access	2
ET 145 Basic Computer System Repair I (1)	4
and ET 146 Basic Computer System Repair II (3)	
or CISC 360 Microcomputer Support and Maintenance (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)	1.5-3
or CISN 300 Network Systems Administration (3)	
or CISN 303 Network Administration - Linux Server (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)	
CISN 300 Network Systems Administration (3)	
CISC 351 Introduction to Local Area Networks (1)	
CISN 303 Network Administration - Linux Server (3)	
CISN 304 Networking Technologies (3)	
Total Units Required	**33.5 - 35**

Associate in Science (A.S.) Degree
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.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement

Career Opportunities
This program is designed for students pursuing employment in the calibration, testing, repair and maintenance of electronic communications equipment.

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.

Upon completion of this program, the student will be able to:
- demonstrate safe work practices for telecommunication equipment.
- demonstrate the proper use of basic telecommunication test equipment to include DMM, oscilloscopes, signal sources.
- use a standard schematic diagram of a telecommunication system to identify and test its parts.
- explain common telecommunication terminology
- estimate telecommunication system circuit performance using mathematical tools
- analyze and compare calculated telecommunication system circuit performance to actual performance.
- measure common telecommunication system circuit parameters using appropriate test equipment.
- set up and install basic telecommunication equipment.
- design proper preventive maintenance, calibration and system testing procedures for telecommunication equipment.
- perform proper preventive maintenance, calibration and system testing on telecommunication equipment.
- diagnose common telecommunication system failures down to the source of the problem.
- solve telecommunication system problems by replacing failed parts.

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, 355; CISN 300, EDT 310, 352; ET 490

Associate in 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. See SCC graduation requirements.

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

Electronics Mechanic

Certificate of Achievement

Career Opportunities
This program is designed for students pursuing 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.

Upon completion of this program, the student will be able to:
- demonstrate safe work practices for electronic equipment.
- demonstrate the proper use of basic electronic test equipment to include DMM, oscilloscopes, and power sources.
- use a standard schematic diagram of electronic devices to identify and assemble the component parts.
- explain common electronic circuit terminology.
- estimate electronic circuit performance using mathematical tools.
- analyze and compare calculated electronic circuit performance to actual performance.
- measure common electronic circuit parameters.
- implement performance testing on simple electronic 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)	
Total Units Required	**31**

Certificate of Achievement
The Certificate of Achievement 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

Prerequisite: None.
Hours: 54 hours LEC
This is a basic course for those interested in electronics who do not meet the requirements for ET 300 and ET 301. Units of instruction include 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

Prerequisite: None.
Hours: 12 hours LEC; 18 hours LAB
This is an introductory 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

Prerequisite: ET 145 with a grade of "C" or better or equivalent.
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: ET 146 with a grade of "C" or better or equivalent.
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: None.
Hours: 54 hours LEC
This is a basic course for those interested in cabling and installation 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

Prerequisite: ET 210 and 230 with grades of "C" or better or equivalent.
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: None.
Advisory: Concurrent enrollment in ET 210.
Hours: 54 hours LAB
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

Prerequisite: ET 220 with a grade of "C" or better or equivalent.
Hours: 54 hours LEC; 108 hours LAB
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 295 Independent Studies in Electronics Technology 1-3 Units

Prerequisite: None.
Hours: 54 hours LEC
Independent study of an electronic topic or research project. This course is for students who wish to develop an in-depth understanding in fundamental topics of electronics technology and to learn to work in a collaborative atmosphere with instructors and other students. Instructor approval is required to enroll in this course.

ET 299 Experimental Offering in Electronics Technology .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
See Experimental Offerings

ET 300 DC Theory and Circuit Fundamentals 2.5 Units

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 ET 310.
Course Transferable to CSU
Hours: 27 hours LEC; 54 hours LAB
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

Prerequisite: Successful completion of ET 300 with a grade of "C" or better or equivalent prerequisite.
Advisory: Concurrent enrollment in ET 306 and ET 311.
Course Transferable to CSU
Hours: 27 hours LEC; 54 hours LAB
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

Prerequisite: None.
Advisory: Successful completion of or concurrent enrollment in ET 300 and ET 301.
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
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

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 II(b)
Course Transferable to CSU
Hours: 27 hours LEC
This course focuses on the application of the basic concepts of algebra to solve electronic problems in DC resistive series parallel circuits. Instruction will be given in the use of powers of ten, algebra, and other mathematical concepts necessary for calculation of resistance, DC voltage, and current distribution in series, parallel, and combination circuits.

ET 311 Mathematics for AC Circuit Fundamentals, Part II 1.5 Units

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 II(b)
Course Transferable to CSU
Hours: 27 hours LEC
This course focuses on the application of the basic concepts of algebra and trigonometry to solve electronic problems in AC-RLC series/parallel circuits. Instruction will be given 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

Prerequisite: ET 300, 301, 310, and 311 with grades of "C" or better.
Advisory: Concurrent enrollment in ET 320 and 330.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: ET 300, 301, 310, and 311 with a grades of "C" or better or equivalent.
Advisory: Concurrent enrollment in ET 315.
Course Transferable to CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: ET 300, 301, 310, and 311 with grades of "C" or better or equivalent.
Advisory: Concurrent enrollment in ET 315 and ET 320.
Course Transferable to CSU
Hours: 54 hours LEC; 108 hours LAB
This course focuses on logic 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-lock loops, op-amp integrators and active filters will be covered.

ET 340 Basic Microprocessors 5 Units

Prerequisite: None.
Advisory: Concurrent enrollment in ET 490.
Course Transferable to CSU
Hours: 54 hours LEC; 108 hours LAB
This is a 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

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: ET 340 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 18 hours LEC; 108 hours LAB
This course will focus on the principles of microprocessor system control and troubleshooting. Study will include measurement transducers, analog-to-digital and digital-to-analog 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

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
This course is a study of electromagnetic waves and antennas. The course will present types of microwave generators, microwave communications systems, and 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

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 54 hours LEC; 108 hours LAB
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

Prerequisite: ET 306 with a grade of "C" or better or equivalent.
Advisory: ET 300 and ET 301 with grades of "C" or better. Concurrent enrollment in ET 340 is advised.
Course Transferable to CSU
Hours: 108 hours LAB
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 .5-4 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 9 hours LEC; 216 hours LAB
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 495 Independent Studies in Electronics Technology 1-3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 162 hours LAB
Independent study of an electronic topic or research project. This course is for students who wish to develop an in-depth understanding in fundamental topics of electronics technology and to learn to work in a collaborative atmosphere with instructors and other students. Instructor approval is required to enroll in this course.

ET 498 Work Experience in Electronics Technology 1-4 Units

Prerequisite: None
Enrollment Limitation: 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.
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
This course provides students with opportunities to develop or add marketable skills related to their vocational study programs. 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. Only one Work Experience course may be taken per semester.

ET 499 Experimental Offering in Electronics Technology .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Engineering ENGR

Associate in Science Degree

Civil Engineering, Degree

Electrical/Computer Engineering, Degree

Engineering General, Degree

Mechanical/Aeronautical Engineering, Degree

Division of Mathematics/Statistics & Engineering

Anne E. Licciardi, Dean

South Gym 220

916-558-2202

Career Opportunities

The Engineering Associate in Science degree is designed to meet lower division requirements for various majors in engineering. Completion of the Associate in Science degree should qualify the student to transfer at the upper division level to an engineering program at a four-year institution. The degree has a common engineering core requirement as well as specific field requirements. The specific field requirements do vary depending on the four-year institution to which the student will transfer. Thus, requirements for specific universities should be checked before selecting specific field courses.

See next page for degrees

Upon completion of any one or more of these programs, the student will be able to:

- solve problems by applying knowledge of mathematics through differential and integral calculus, differential equations and linear algebra.
- solve problems by applying knowledge of science including chemistry and physics.
- use technology to enhance their productivity.
- apply knowledge of mathematics, science, and engineering to identify, formulate, and solve basic civil engineering problems.
- demonstrate an understanding of the ethical and professional responsibilities of an engineer and how engineering solutions can impact society.
- communicate thoughts in both written and oral forms to team members and larger audiences.
- seek transfer at the junior level into a Civil Engineering program at a 4-year institution.

Civil Engineering

Associate in Science Degree

Required Program	Units
CHEM 400 General Chemistry	5
ENGR 300 Introduction to Engineering	1
ENGR 312 Engineering Graphics	3
ENGR 400 Introduction to Electrical Circuits and Devices	3
ENGR 405 Engineering Problem Solving (3) or CISP 360 Introduction to Structured Programming (4)	3-4
ENGR 412 Properties of Materials	3
ENGR 422 Engineering Mechanics, Statics	3
MATH 400 Calculus I	5
MATH 401 Calculus II	5
MATH 402 Calculus III	5
MATH 420 Differential Equations	4
PHYS 410 Mechanics of Solids and Fluids	5
PHYS 420 Electricity and Magnetism	5
Subtotal Units	**50 - 51**

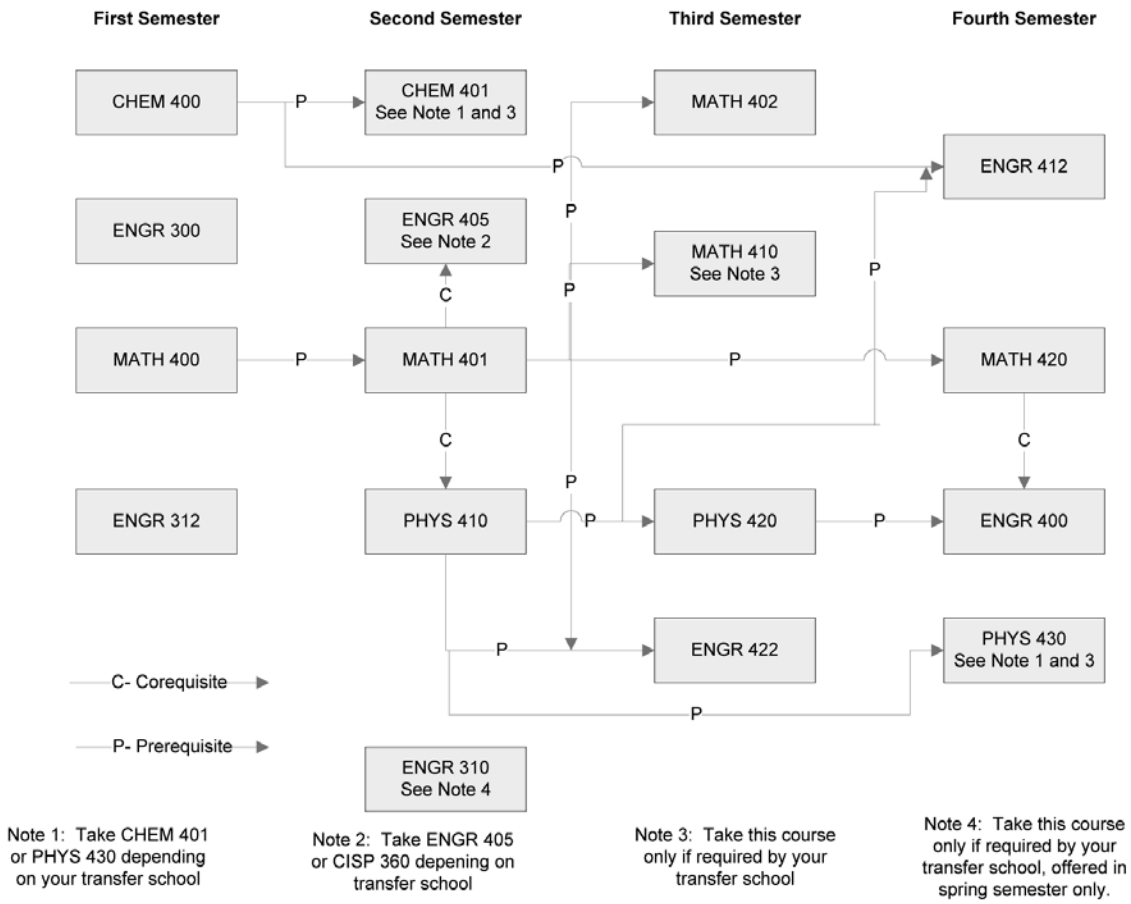
Additional Civil Engineering requirements (consult the Engineering Department Chair and counseling)

ENGR 310 Engineering Survey Measurements	4
MATH 410 Introduction to Linear Algebra	3
PHYS 430 Heat, Waves, Light and Modern Physics (5) or CHEM 401 General Chemistry (5)	5
Units: 12	
Total Units Required	**62 - 63**

Associate in Science (A.S.) Degree

The Associate in Science 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.

Civil Engineering
Course Flow



Electrical/Computer Engineering

Associate in Science Degree

Required Program	Units
CHEM 400 General Chemistry	5
ENGR 300 Introduction to Engineering	1
ENGR 400 Introduction to Electrical Circuits and Devices	3
ENGR 405 Engineering Problem Solving (3)	3 - 4
or CISP 360 Introduction to Structured Programming (4)	
MATH 400 Calculus I	5
MATH 401 Calculus II	5
MATH 402 Calculus III	5
MATH 420 Differential Equations	4
PHYS 410 Mechanics of Solids and Fluids	5
PHYS 420 Electricity and Magnetism	5
Subtotal Units	**41 - 42**

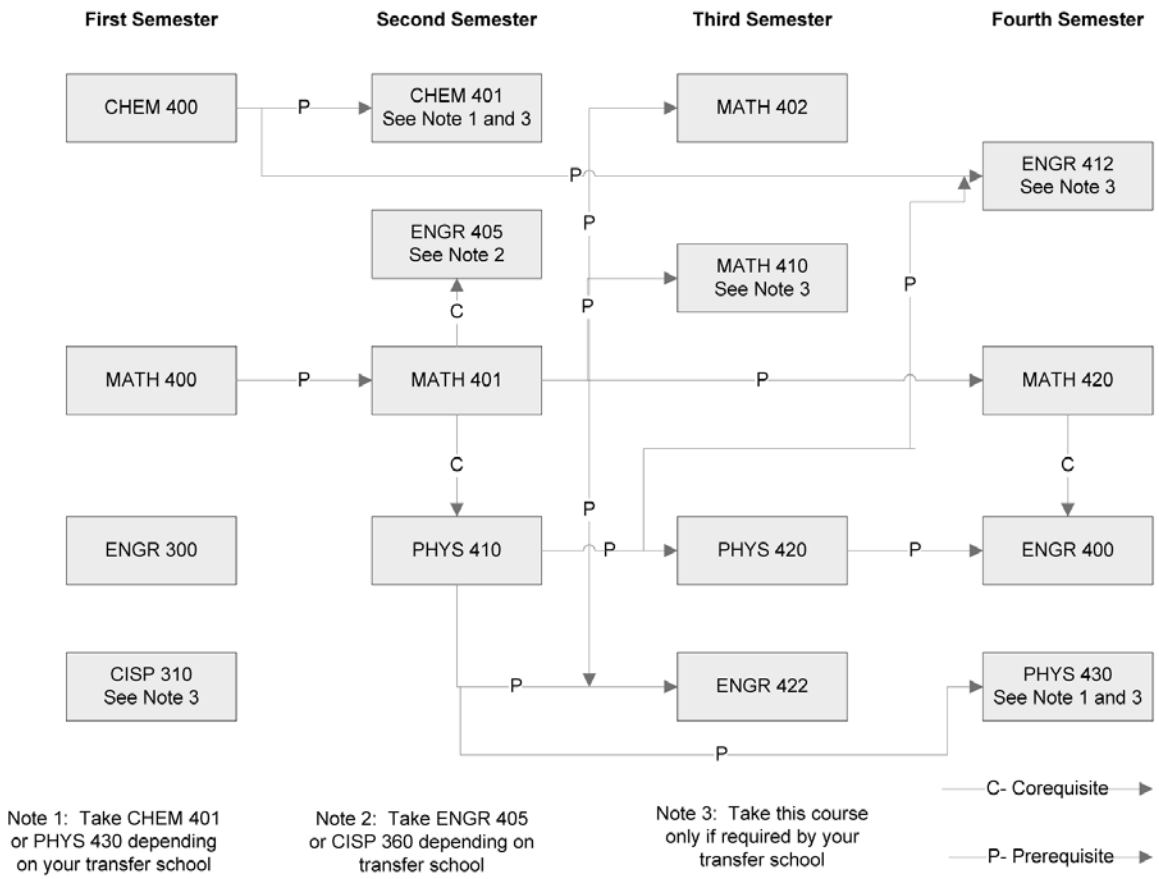
Additional Electrical/Computer Engineering Requirements (Consult Engineering Department Chair and Counseling)

CISP 310 Assembly Language Programming for Microcomputers	4
ENGR 412 Properties of Materials	3
ENGR 422 Engineering Mechanics, Statics	3
MATH 410 Introduction to Linear Algebra	3
PHYS 430 Heat, Waves, Light and Modern Physics (5)	5
or CHEM 401 General Chemistry (5)	
Units: 18	
Total Units Required	**59 - 60**

Associate in Science (A.S.) Degree

The Associate in Science 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.

Electrical/Computer Engineering Course Flow



Engineering, General

Associate in Science Degree

Required Program	Units
CHEM 400 General Chemistry	5
ENGR 300 Introduction to Engineering	1
ENGR 400 Introduction to Electrical Circuits and Devices	3
ENGR 405 Engineering Problem Solving (3)	3 - 4
or CISP 360 Introduction to Structured Programming (4)	
MATH 400 Calculus I	5
MATH 401 Calculus II	5
MATH 402 Calculus III	5
MATH 420 Differential Equations	4
PHYS 410 Mechanics of Solids and Fluids	5
PHYS 420 Electricity and Magnetism	5
Subtotal Units	**41 - 42**

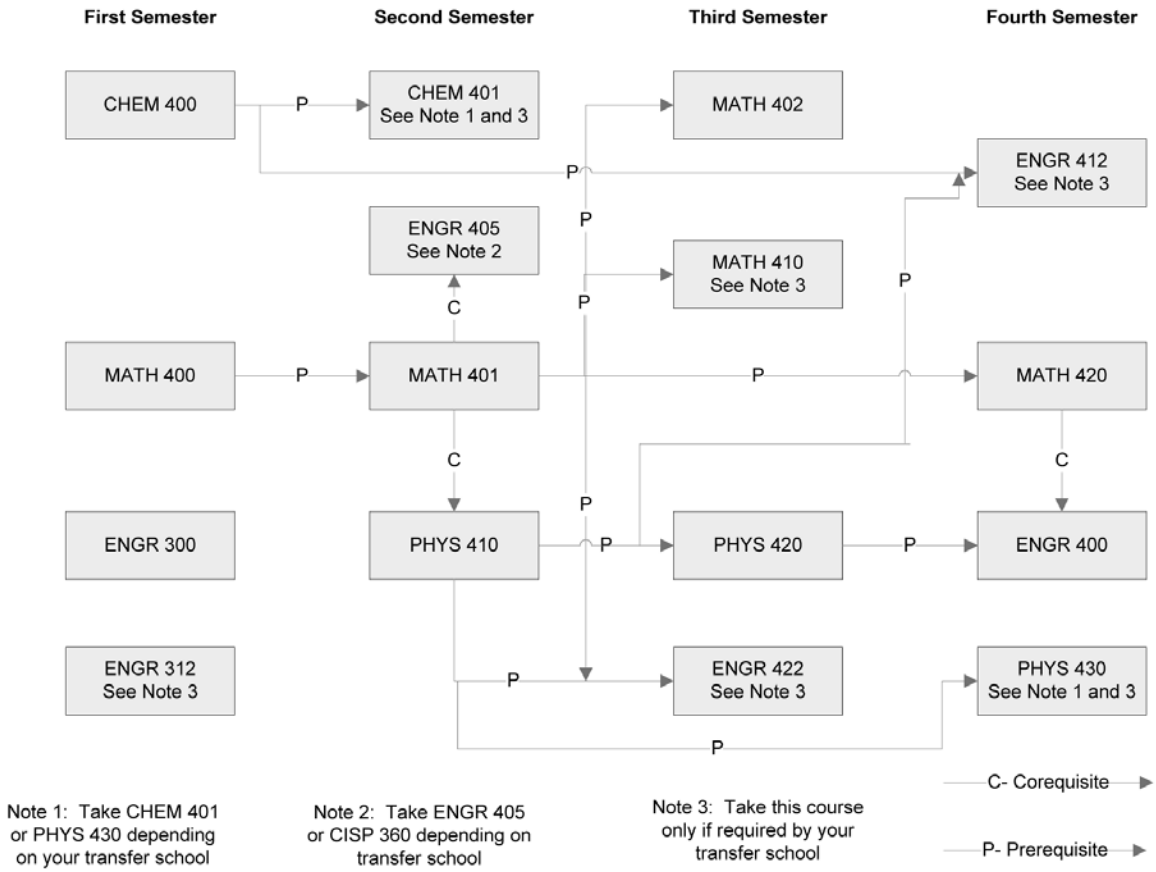
Additional General Engineering requirements (consult the Engineering Department Chair and counseling)

ENGR 312 Engineering Graphics	3
ENGR 412 Properties of Materials	3
ENGR 422 Engineering Mechanics, Statics	3
MATH 410 Introduction to Linear Algebra	3
PHYS 430 Heat, Waves, Light and Modern Physics (5)	5
or CHEM 401 General Chemistry (5)	
Units: 17	
Total Units Required	**58 - 59**

Associate in Science (A.S.) Degree

The Associate in Science 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.

General (Undecided) Engineering Course Flow



Mechanical/Aeronautical Engineering

Associate in Science Degree

Required Program	Units
CHEM 400 General Chemistry	5
ENGR 300 Introduction to Engineering	1
ENGR 312 Engineering Graphics	3
ENGR 400 Introduction to Electrical Circuits and Devices	3
ENGR 405 Engineering Problem Solving (3) or CISP 360 Introduction to Structured Programming (4)	3 - 4
ENGR 412 Properties of Materials	3
ENGR 422 Engineering Mechanics, Statics	3
MATH 400 Calculus I	5
MATH 401 Calculus II	5
MATH 402 Calculus III	5
MATH 420 Differential Equations	4
PHYS 410 Mechanics of Solids and Fluids	5
PHYS 420 Electricity and Magnetism	5
Subtotal Units	**50 - 51**

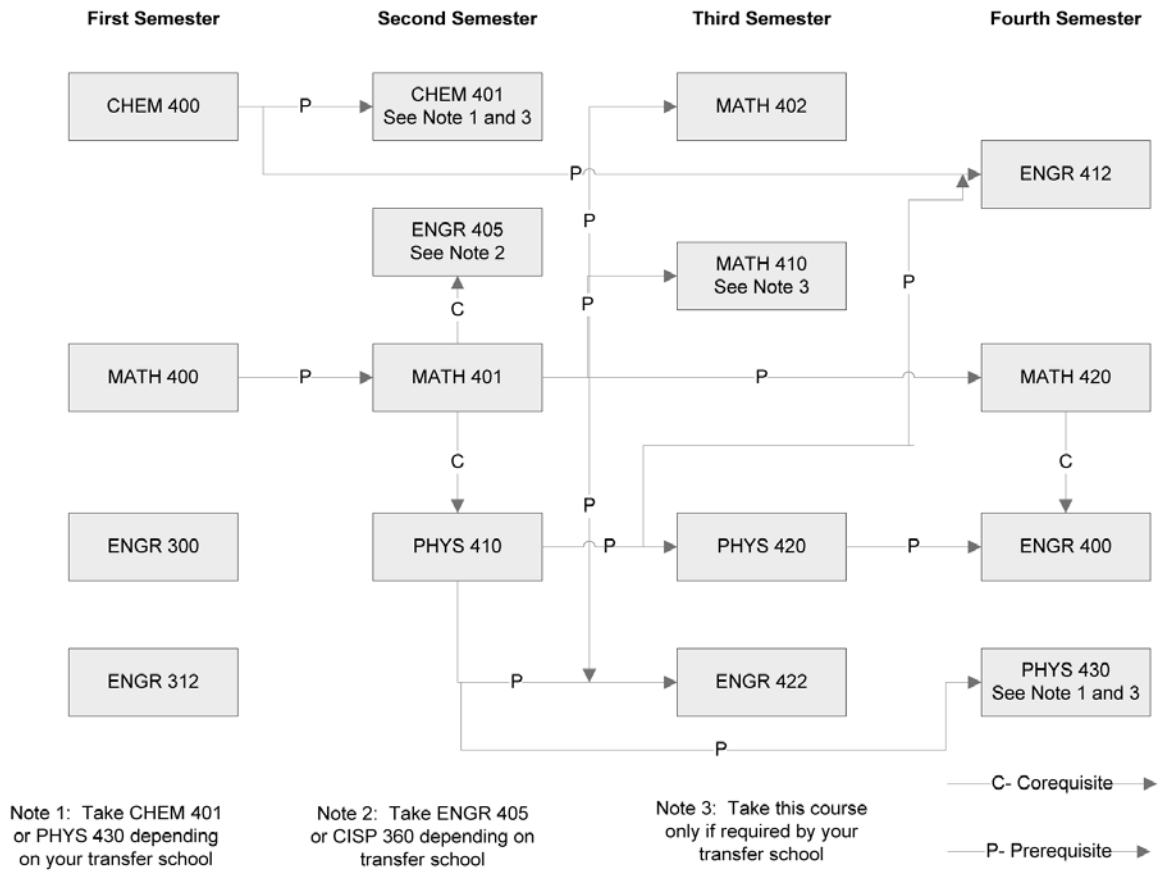
Additional General Engineering requirements (consult the Engineering Department Chair and counseling)

MATH 410 Introduction to Linear Algebra	3
PHYS 430 Heat, Waves, Light and Modern Physics (5) or CHEM 401 General Chemistry (5)	5
Units: 8	
Total Units Required	**58 - 59**

Associate in Science (A.S.) Degree

The Associate in Science 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.

Mechanical/Aeronautical Engineering Course Flow



Engineering (ENGR)

ENGR 300 Introduction to Engineering 1 Unit

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC
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 3 Units

Same As: EDT 300
Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is the first course in drafting for drafting, architectural, and engineering students. Studies include drafting instrument care and use, sketching, scale reading, drafting conventions, lettering, orthographic and pictorial drawings, dimensioning techniques, sections, auxiliary views, surface developments, topographics, and working drawing development. Credit may be earned for EDT 300 or ENGR 306, but not for both. Students are required to provide their own drafting equipment.

ENGR 310 Engineering Survey Measurements 4 Units

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.
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: None
Advisory: Knowledgeable in the use of a personal computer.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 72 hours LAB
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

Prerequisite: PHYS 420 with a grade of "C" or better
Corequisite: MATH 420
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: CHEM 400 and PHYS 410 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: MATH 401 and PHYS 410 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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 495 Independent Studies in Engineering 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

ENGR 498 Work Experience in Engineering 1-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
See Work Experience.

ENGR 499 Experimental Offering in Engineering .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Engineering Design Technology EDT, SURVY

Associate in Science Degree
Certificate of Achievement

Division of Advanced Technology
Donnetta Webb, Dean
Technology 106
916-558-2491

Engineering Design Technology, Degree and Certificate of Achievement

Architectural/Structural Drafting, Degree and Certificate of Achievement

Electric (Power-Lighting Systems), Degree and Certificate of Achievement

Mechanical (HVAC/Plumbing Systems), Degree and Certificate of Achievement

HVAC Systems Design, Degree and Certificate of Achievement

Surveying (Geomatics), Certificate of Achievement

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.

The program is open to all students. An orientation interview with a member of the Engineering Design Technology staff is encouraged to help students become acquainted with the program requirements. For information call (916) 558-2232 or 558-2491.

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.

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.

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.

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.

Upon completion of this program, the student will be able to:
- prepare architectural, mechanical and electrical plans for buildings that conform with current industry standards
- demonstrate an understanding of the process of architectural design, mechanical design and electrical design by applying design principles to building design projects

Required Program	**Units**
EDT 300 Basic Technical Drafting (3)	3
or ENGR 306 Basic Technical Drafting (3)	
EDT 310 Computer Aided Drafting	3
EDT 312 Intermediate Computer Aided Drafting	3
EDT 314 Advanced Computer Assisted Drafting and Design	2
EDT 320 Architectural/Structural Drafting	4
EDT 332 Air Conditioning, Plumbing and Piping Design Documents	4
EDT 336 Air Conditioning System Design	3
EDT 340 Plumbing and Piping Systems Design I	2
EDT 342 Plumbing and Piping Systems Design II	2
EDT 350 Electrical and Electronics Drafting/Design Problem Solving	3
EDT 352 Electrical and Electronics Drafting Design	4
A minimum of 2 units from the following:	2
EDT 302 Building Trades Blueprint Reading (2)	
EDT 498 Work Experience in Engineering Design Technology (1-4)	
EDT 356 Electrical Systems Design (2)	
SURVY 300 Elementary Surveying (4)	
SURVY 310 Survey Map Production (4)	
MATH 334 Trigonometry (4)	
Total Units Required	**35**

Suggested Elective
HCD 310

Associate in 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. See SCC graduation requirements.

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

Architectural/Structural Drafting

Associate in Science Degree
Certificate of Achievement

Program Information
This degree and Certificate of Achievement option is designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Upon completion of this program, the student will be able to:
- prepare architectural, mechanical and electrical plans for buildings that conform with current industry standards
- demonstrate an understanding of the process of architectural design, mechanical design and electrical design by applying design principles to building design projects

Required Program	Units
EDT 300 Basic Technical Drafting (3)	3
or ENGR 306 Basic Technical Drafting (3)	
EDT 310 Computer Aided Drafting	3
EDT 312 Intermediate Computer Aided Drafting	3
EDT 314 Advanced Computer Assisted Drafting and Design	2
EDT 320 Architectural/Structural Drafting	4
A minimum of 6 units from the following:	6
EDT 302 Building Trades Blueprint Reading (2)	
EDT 330 Air Conditioning, Plumbing and Piping Design (3)	
EDT 332 Air Conditioning, Plumbing and Piping Design Documents (4)	
EDT 336 Air Conditioning System Design (3)	
EDT 340 Plumbing and Piping Systems Design I (2)	
EDT 342 Plumbing and Piping Systems Design II (2)	
EDT 350 Electrical and Electronics Drafting/Design Problem Solving (3)	
EDT 352 Electrical and Electronics Drafting Design (4)	
EDT 356 Electrical Systems Design (2)	
EDT 498 Work Experience in Engineering Design Technology (1 - 4)	
SURVY 300 Elementary Surveying (4)	
SURVY 310 Survey Map Production (4)	
MATH 334 Trigonometry (4)	
Total Units Required	**21**

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement

Program Information
Designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Upon completion of this program, the student will be able to:
- prepare architectural, mechanical and electrical plans for buildings that conform with current industry standards
- demonstrate an understanding of the process of architectural design, mechanical design and electrical design by applying design principles to building design projects

Required Program	Units
EDT 300 Basic Technical Drafting (3)	3
or ENGR 306 Basic Technical Drafting (3)	
EDT 310 Computer Aided Drafting	3
EDT 312 Intermediate Computer Aided Drafting	3
EDT 314 Advanced Computer Assisted Drafting and Design	2
EDT 350 Electrical and Electronics Drafting/Design Problem Solving	3
EDT 352 Electrical and Electronics Drafting Design	4
A minimum of 7 units from the following:	7
EDT 302 Building Trades Blueprint Reading (2)	
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 336 Air Conditioning System Design (3)	
EDT 340 Plumbing and Piping Systems Design I (2)	
EDT 342 Plumbing and Piping Systems Design II (2)	
EDT 356 Electrical Systems Design (2)	
EDT 498 Work Experience in Engineering Design Technology (1 - 4)	
SURVY 300 Elementary Surveying (4)	
SURVY 310 Survey Map Production (4)	
MATH 334 Trigonometry (4)	
Total Units Required	**25**

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement
CADD (Heating, Ventilating, Air Conditioning)

Program Information
This program is designed for students pursuing employment or upgrade in training in computer applications of heating, ventilation, and air conditioning (HVAC) systems design.

Upon completion of this program, the student will be able to:
- prepare mechanical designs (HVAC) for buildings that conform with current industry standards.
- demonstrate an understanding of the process of mechanical design (HVAC) by applying design principles to building design projects.

Required Program	Units
EDT 300 Basic Technical Drafting (3)	3
or ENGR 306 Basic Technical Drafting (3)	
EDT 310 Computer Aided Drafting	3
EDT 312 Intermediate Computer Aided Drafting	3
EDT 314 Advanced Computer Assisted Drafting and Design	2
EDT 336 Air Conditioning System Design	3
A minimum of 10 units from the following:	10
EDT 302 Building Trades Blueprint Reading (2)	
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 340 Plumbing and Piping Systems Design I (2)	
EDT 342 Plumbing and Piping Systems Design II (2)	
EDT 350 Electrical and Electronics Drafting/Design Problem Solving (3)	
EDT 352 Electrical and Electronics Drafting Design (4)	
EDT 356 Electrical Systems Design (2)	
EDT 498 Work Experience in Engineering Design Technology (1 - 4)	
MATH 334 Trigonometry (4)	
Total Units Required	**24**

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement

Designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Upon completion of this program, the student will be able to:
- prepare mechanical and plumbing plans for buildings that conform with current industry standards.
- demonstrate an understanding of the process of mechanical and plumbing design by applying design principles to building design projects.

Required Program	Units
EDT 300 Basic Technical Drafting (3)	3
or ENGR 306 Basic Technical Drafting (3)	
EDT 310 Computer Aided Drafting	3
EDT 312 Intermediate Computer Aided Drafting	3
EDT 314 Advanced Computer Assisted Drafting and Design	2
EDT 332 Air Conditioning, Plumbing and Piping Design Documents	4
EDT 336 Air Conditioning System Design	3
EDT 340 Plumbing and Piping Systems Design I	2
EDT 342 Plumbing and Piping Systems Design II	2
A minimum of 3 units from the following:	3
EDT 302 Building Trades Blueprint Reading (2)	
EDT 320 Architectural/Structural Drafting (4)	
EDT 350 Electrical and Electronics Drafting/Design Problem Solving (3)	
EDT 352 Electrical and Electronics Drafting Design (4)	
EDT 356 Electrical Systems Design (2)	
EDT 498 Work Experience in Engineering Design Technology (1 - 4)	
SURVY 300 Elementary Surveying (4)	
SURVY 310 Survey Map Production (4)	
MATH 334 Trigonometry (4)	
Total Units Required	**25**

Associate in 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. See SCC graduation requirements.

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

Surveying (Geomatics) SURVY

Certificate of Achievement

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.

Upon completion of this program, the student will be able to:
- operate all surveying measurement instruments commonly in use within the profession.
- demonstrate a knowledge of the techniques and methodology of surveying measurement.
- select appropriate survey measuring instruments to accurately complete a variety of surveying projects.
- list specific requirements of local agencies for approval and filing of survey maps such as, record of surveys, parcel maps, subdivision maps, preliminary and final maps, and also improvement plans.

- demonstrate an understanding of boundary surveying and photogrammetric surveys, theory of geodetic and control surveys, Global Positioning Systems, Geographic Information System and electronic surveys.
- demonstrate a knowledge of statutory and common law regulating the surveying industry.
- prepare and/or interpret different forms of legal descriptions of land ownership and transfer.
- discuss various types of land ownership and classify effects and intent of various land transfers and transactions.

Required Program	**Units**
SURVY 300 Elementary Surveying	4
SURVY 320 Advanced Survey	4
SURVY 330 Special Surveying Projects	4
SURVY 340 Basics of Photogrammetry	3
SURVY 350 Boundary Control and Legal Principles	4
SURVY 352 Evidence and Procedures for Boundary Location	4
A minimum of 3 units from the following	3
SURVY 310 Survey Map Production (4)	
SURVY 360 Survey Business Practices (3)	
GEOG 330 Introduction to Geographic Information Systems (3)	
Total Units Required	**26**

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

Engineering Design Technology (EDT)

EDT 300 Basic Technical Drafting 3 Units

Same As: ENGR 306
Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is the first course in drafting for drafting, architectural, and engineering students. Studies include drafting instrument care and use, sketching, scale reading, drafting conventions, lettering, orthographic and pictorial drawings, dimensioning techniques, sections, auxiliary views, surface developments, topographics, and working drawing development. Credit may be earned for EDT 300 or ENGR 306, but not for both. Students are required to provide their own drafting equipment.

EDT 302 Building Trades Blueprint Reading 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC
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. This course may be taken two times for credit provided that the code versions have changed.

EDT 310 Computer Aided Drafting 3 Units

Prerequisite: None.
Advisory: EDT 300 with a grade of "C" or better or equivalent
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to computer-assisted drafting (CAD). It covers orthographic and isometric projection concepts. CAD topics include, but are not limited to: Entity Editing; Linetypes; Layers; Entity Drawing; Object Snaps; Grips; Polylines; Dimensioning; Multilines; Pictorial Drawings; Program Customization; Drawing Plotting - Plotters and Printing; Selection Sets and Blocks. Instruction is provided in the commands, application, techniques, standards and settings of CAD software to produce basic technical drawings that conform to current industry standards. A lecture/lab format is used to develop student comprehension of CAD software and to develop appropriate skills required 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

Prerequisite: EDT 310 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is a second course in Computer Aided Drafting (CAD) that emphasizes advanced CAD commands and design graphics drawing principles and helps develop job-applicable speed and competence on AutoCAD software. Topics include but are not limited to: Windows Explorer; Paths and Filenames, Directory Structures; CAD Layering Standards; Floor Plans: Limits, Layers, Scale Factors; Drawing Sheet Sizes; Limits; Zoom xP; AutoCAD Geometric Calculator; AutoCAD Filters and Selection Sets; Architectural Dimension settings; AutoCAD Customization; Command Aliases; Toolbar and Menu Customization; Macros; POP Sections; Menugroups / Image Tile Menus; Preferences/Profiles/Advanced Plotting Techniques; Attributes; Scripts and Bill of Materials. 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

Prerequisite: EDT 310 with a grade of "C" or better
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
This course covers advanced study in computer aided drafting with emphasis on construction related topics. Course subject areas include basic three-dimensional studies, pictorial (isometric) and three dimensional drawings and dimensioning; customization using the AutoLISP programming language; use of database application to integrate drawing and schedule information in project drawing sets; 3D and UCS Coordinate Systems; Spherical and Cylindrical Coordinates; Solids and Primitives; Solid Model Editing 3D Objects; Wireframes; 3D Faces, Rendering; Light Sources and Backgrounds; Raster and PostScript Files, and applications of CAD to drawing development. The concepts also relate to other computer drafting applications. This course may be taken two times for credit provided that the software version has changed.

EDT 316 REVIT-Architectural 3 Units

Prerequisite: EDT 310 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course provides instruction in the AutoDesk software package REVIT Architecture. Topics covered include but are not limited to: Building Information Modeling (BIM), parametric 3D design, tools for creating and analyzing projects, and automated tools for documentation.

EDT 320 Architectural/Structural Drafting 4 Units

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
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.

EDT 330 Air Conditioning, Plumbing and Piping Design 3 Units

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 54 hours LEC
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, controls, plumbing and industrial piping systems. This course may be taken two times for credit, provided that the software version has changed.

EDT 332 Air Conditioning, Plumbing and Piping Design Documents 4 Units

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
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.

EDT 336 Air Conditioning System Design 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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.

EDT 340 Plumbing and Piping Systems Design I 2 Units

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC
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 code version or the software version has changed.

EDT 342 Plumbing and Piping Systems Design II 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC
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 Code version or the software version has changed.

EDT 350 Electrical and Electronics Drafting/Design Problem Solving 3 Units

Prerequisite: None.
Advisory: Concurrent enrollment in EDT 352.
Course Transferable to CSU
Hours: 54 hours LEC
This course involves problem solving related to electrical and electronics drafting, formula solutions, application of Ohms Law, series-parallel circuitry, basic electrical power and sizing formula, and general lighting calculations. This course may be taken two times for credit, provided that the software version has changed.

EDT 352 Electrical and Electronics Drafting Design 4 Units

Prerequisite: EDT 300 and EDT 310 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
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 or 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 Code version or the software version has changed.

EDT 356 Electrical Systems Design 2 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC; 18 hours LAB
This is a basic course on electrical systems for residential and commercial buildings with emphasis on practical industry, materials, methods, and codes. This course may be taken two times for credit provided the Code version or the software version has changed.

EDT 494 Topics in Engineering Design Technology .5-4 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
This specialized course has been developed in cooperation with industry to address emerging training needs. This course may be taken four times provided there is no duplication of topics.

EDT 495 Independent Studies in Engineering Design Technology 1-3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 162 hours LAB
Independent study of an Engineering Design Technology topic or research project. This course is for students who wish to develop an in-depth understanding in fundamental topics of Engineering Design Technology and to learn to work in a collaborative atmosphere with instructors and other students. Instructor approval is required to enroll in this course. This course may be taken four times for credit providing there is no 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
General Education: AA/AS Area III(b)
Enrollment Limitation: 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.
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
This course provides students with opportunities to develop or add marketable skills related to their vocational study programs. 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. Only one Work Experience course may be taken per semester.

EDT 499 Experimental Offering in Engineering Design Technology .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
See Experimental Offering

Surveying (Geomatics) (SURVY)

SURVY 300 Elementary Surveying 4 Units

Prerequisite: None.
Advisory: MATH 334 with a grade of "C" or better.
General Education: AA/AS Area II(b)
Course Transferable to UC/CSU
Hours: 45 hours LEC; 81 hours LAB
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

Prerequisite: None.
Course Transferable to CSU
Hours: 45 hours LEC; 81 hours LAB
This course provides an exposure to the special procedures and requirements unique to computer-assisted survey mapping. Fundamental survey drafting methods and types of maps will be stressed. Conformance with local agency and State mapping requirements will be addressed. Students will work with state of the art computer hardware and software to produce industry standard survey maps.

SURVY 320 Advanced Survey 4 Units

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.
Course Transferable to CSU
Hours: 45 hours LEC; 81 hours LAB
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 324 Global Positioning Surveying (GPS) 3 Units

Prerequisite: SURVY 320 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the methods, techniques, tools, and applications of GPS for use in Land Surveys. It will also present factors of geodesy for surveying, enabling the student to understand and use the mathematical parameters of the earth's shape and effect on survey measurements.

SURVY 330 Special Surveying Projects 4 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 45 hours LEC; 81 hours LAB
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. This course will provide an introduction to boundary surveying and photogrammetric surveys, theory of geodetic and control surveys. Global Positioning Systems (GPS), Geographic Information System (GIS), and electronic surveys and mapping are also included.

SURVY 340 Basics of Photogrammetry 3 Units

Prerequisite: SURVY 320 with a grade of "C" or better, or equivalent work experience.
Course Transferable to CSU
Hours: 54 hours LEC
This course provides an introduction to the theory and practice of Photogrammetry, including image systems and quality, theory of stereo photography, and orientation and design of stereo models. The class will also address design and operating principles of stereo plotting, photogrammetric and orthophoto mapping. This course also focuses on considerations for flight and control planning, control identification techniques, advanced field completion surveys, and property line investigations. 2 field trips are required.

SURVY 350 Boundary Control and Legal Principles 4 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 72 hours LEC
An introduction to concepts and legal principles associated with the historic and current practices of surveying and mapping procedures used in locating boundaries and land ownership lines. This course has been developed for those in the fields of surveying, civil engineering, title insurance, and real estate.

SURVY 352 Evidence and Procedures for Boundary Location 4 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 72 hours LEC
This is a continuation of boundary location with emphasis on procedures rather than principles. It provides an introduction to the historical development, current concepts, and evidence and procedures used in boundary determination. 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. This course is designed for those in the fields of engineering, land surveying, land law, real estate, and title insurance.

SURVY 360 Survey Business Practices 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course is directed to surveyors who want or are considering opening a successful business. The course offers an introduction to surveying business economics; contracts and specifications; organizing, staffing, hiring, training, and supervision of professional/technical personnel, surveyor-client relationships, and ethics of practice.

SURVY 495 Independent Studies in Surveying 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

SURVY 498 Work Experience in Surveying 1-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC; 75 hours LAB
See Work Experience

SURVY 499 Experimental Offering in Surveying .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
See Experimental Offering

English
ENGCW, ENGED, ENGLB, ENGLT, ENGRD, ENGWR

Associate in Arts Degree

Division of Language and Literature

Albert Garcia, Dean

Rodda South 226

916-558-2325

English
Associate in Arts Degree

Program Information
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.

Career Opportunities
A degree in English is a good gateway towards a career in teaching, law, technical writing, creative writing, editing/publishing, marketing, and any occupation requiring clear communication skills.

Upon completion of this program, the student will be able to:
- assess and comprehend texts on a literal level.
- analyze texts on thematic, rhetorical, metaphoric, and symbolic levels.
- synthesize multiple perspectives on a literary text.
- demonstrate an understanding of the social and historical context for a work of literature.
- produce and communicate clear and effective arguments and ideas.

Required Program	**Units**
ENGWR 300 College Composition (3)	3
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
A minimum of six (6) units from the following:	6
Plus six (6) units from any of the following: ENGLT courses, ENGCW courses, or TA 310	
Total Units Required	**24**

Associate in Arts (A.A.) Degree
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. See SCC graduation requirements.

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 courses 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 courses.

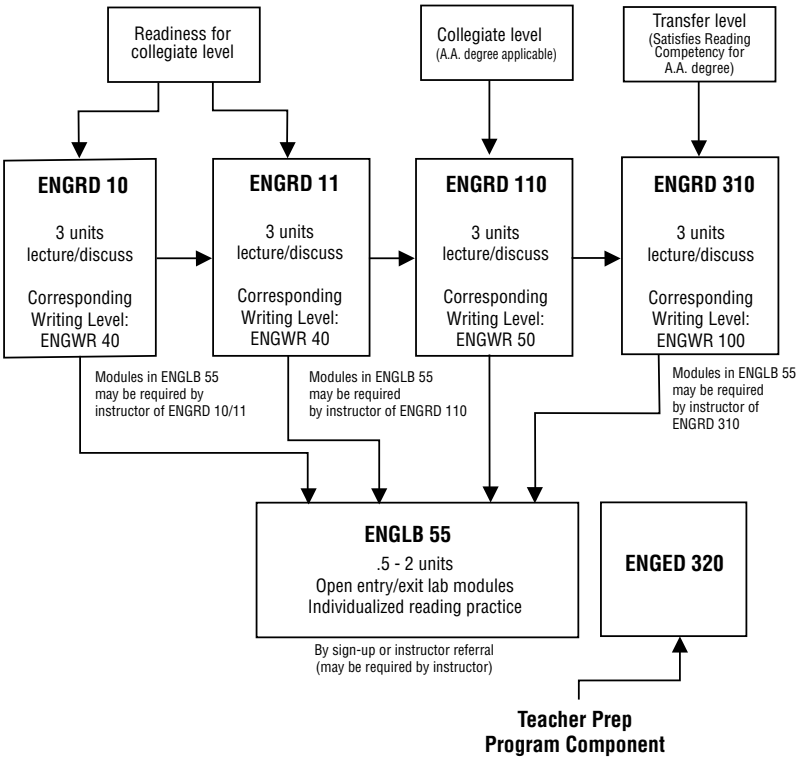
Success in Reading, Writing, and English as a Second Language (ESL)
The success of our students is of utmost importance to us at Sacramento City College. For that reason, we strongly advise students to develop skills in the basics of reading and writing. By reading, we mean understanding and remembering 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.

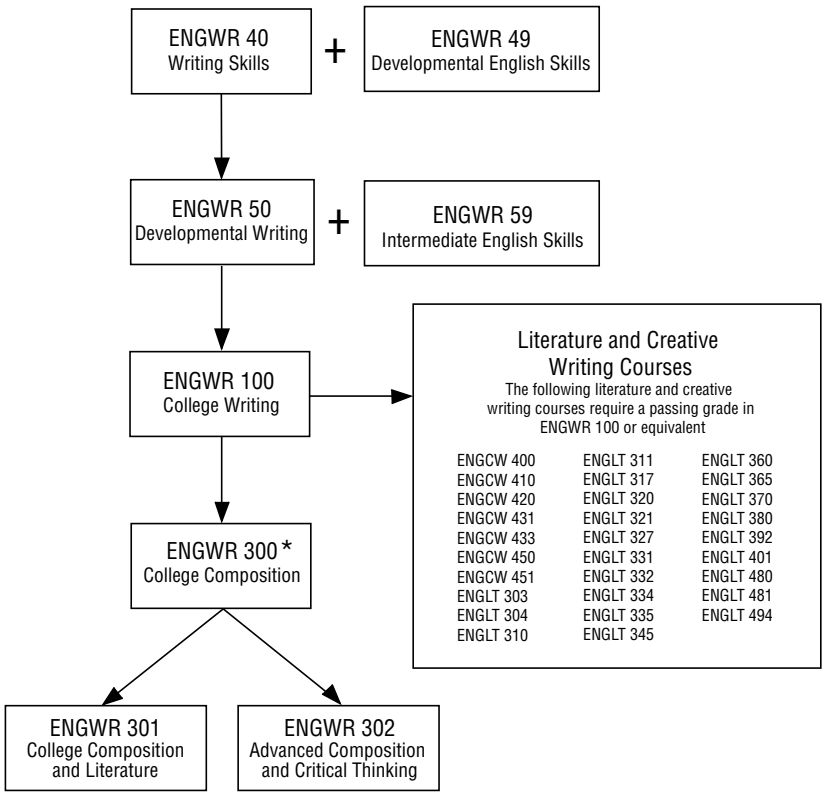
With a strong foundation in the skills of reading and writing, your opportunities for success in college-level classes will be greatly increased.

Student Literary Journal
The student literary journal, Susurrus, is annually produced by the students in ENGCW 450 and ENGCW 451, three-unit production courses. 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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C
Course Transferable to UC/CSU
Hours: 54 hours LEC
The class emphasizes writing of poetry, short fiction, and autobiography. It includes analysis of student work by the instructor and class in a workshop atmosphere. Students explore their creativity through the medium of language and learn the techniques of poetry, fiction, and autobiography while also developing an appreciation of literature by creating it. This course may be taken twice for credit.

ENGCW 410 Fiction Writing Workshop 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C
Course Transferable to UC/CSU
Hours: 54 hours LEC
This is a creative writing course designed for students who wish to concentrate on fiction writing. The class 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 original fiction. This course may be taken twice for credit.

ENGCW 420 Poetry Writing Workshop 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. This course may be taken twice for credit.

ENGCW 431 Autobiography Writing Workshop 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 433 Writing as a Healing Art 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
This course emphasizes journal writing as a model for creative writing projects and as a vehicle for healing using the Amherst Writers and Artists method of journal writing. Students will write extensively in journals throughout the semester and then turn some of those writings into finished pieces of poetry, fiction, and creative nonfiction. Students will prepare a portfolio of original work. This course can be taken three times for credit, provided a different topic is taken.

ENGCW 450 College Literary Magazine 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Course Transferable to CSU
Hours: 54 hours LEC
This course provides instruction in techniques and experience in editing and structuring the college literary magazine, Susurrus. Students will select and edit manuscripts in the genres of poetry, short fiction, and creative non-fiction. This course may be taken two times for credit, provided the topics are not the same.

ENGCW 451 College Literary Magazine 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Course Transferable to CSU
Hours: 54 hours LEC
The course provides experience in producing the college literary magazine, Susurrus, from selecting and editing manuscripts to actual formation of camera-ready final draft for publication. Discussions include text and art layout, possible CD-ROM and website applications. Students will plan and present a campus literary reading. This course may be taken two times for credit, provided the topics are not the same.

ENGCW 495 Independent Studies in English-Creative Writing 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC

ENGCW 499 Experimental Offering in English-Creative Writing .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offering

English - Education (ENGED)

ENGED 305 Structure of English 3 Units

Prerequisite: ENGWR 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: ENGRD 110 with a grade of "C" or better or placement through the assessment process.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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.

ENGED 495 Independent Studies in English-Education 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

ENGED 499 Experimental Offering in English - Education .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offering

English - Laboratory (ENGLB)

ENGLB 55 Individualized Reading Skills .5-2 Units

Prerequisite: None
Hours: 108 hours LAB
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.

ENGLB 299 Experimental Offering in English-Laboratory .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offering

English - Literature (ENGLT)

ENGLT 303 Introduction to the Short Story 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is designed to introduce students to the art of the short story. It will provide a history of the short story and distinguishing characteristics of the genre. The emphasis will be on the connection between literature and the human experience. The purpose will be to help students develop an appreciation, understanding, and knowledge of literature.

ENGLT 304 Introduction to Poetry 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
Designed to introduce students to the art of 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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course surveys significant works in the English language 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/authors. Students will also examine the historical and cultural environments in which the literature was created. 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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course surveys significant works in the English language 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, Blake, the Brownings,Tennyson, Dickens, Yeats, Joyce, Woolf, Ezekiel, and Walcott.

ENGLT 317 The English Bible as Literature 3 Units

Prerequisite: ENGWR 100 or ESLW 320 and ESLR 320 with a grade of "C" or better; or placement through the assessment process
General Education: CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course introduces students to some of the literary forms found in the Bible: the poems, proverbs, short stories, wisdom literature, drama, epics, and epistles that are the bases of some of the most enduring symbols and allusions in the literature of the Western world. At the same time, it introduces them to the major Bible characters on whose lives these poems, short stories, wisdom literature, drama, epistles, and epics are centered. Additionally, the course traces the influence of the Bible on the works of selected authors. It is not a study of Jewish or Christian doctrine, nor is it a Bible study course.

ENGLT 320 American Literature 3 Units

Prerequisite: ENGWR 100 with a "C" or better or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 Allan Poe, Nathaniel Hawthorne, Fredrick Douglass, Anne Bradstreet, Washington Irving, Harriet Jacobs, Herman Melville and Phillis Wheatley.

ENGLT 321 American Literature 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 327 Literature of California 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: LIBR 318 with a grade of "C" or better
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
ENGLT 331 is a study of major African-American authors and their literature from 1730 to 1930. This course includes critical reading of slave narratives, autobiographies, essays, novels, plays, short stories, poetry, and folklore. The course examines the cultural, political, and historical contexts for the readings and the connections between the literature and the experiences that inspired them. Some of the writers studied include Lucy Terry, Jupiter Hammon, Frederick Douglass, Phillis Wheatley, William Wells Brown, Frances Harper, Booker T. Washington, W. E. B Dubois, Charles Chestnutt, Alain Locke, Zora Neale Hurston and many others. One field trip may be required.

ENGLT 332 African-American Literature (1930-Present) 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: LIBR 318 with a grade of "C" or better
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
ENGLT 332 is a study of major African-American authors and their literature from 1930 to the present. This course includes critical reading of essays, novels, plays, short stories, poetry, and folklore. The course also examines the cultural, historical, and political contexts for the literature. Some of the writers studied include Richard Wright, Ann Petry, Gwendolyn Brooks, Amiri Baraka, Owen Dodson, August Wilson, Rita Dove, J. California Cooper, Bebe Moore Campbell, Mari Evans, Ralph Ellison, Maya Angelou, Toni Morrison, Alice Walker and many others. One field trip may be required.

ENGLT 334 Asian-American Literature 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; CSU Area D3; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course surveys fiction, drama, poetry, and memoirs written by Asian Americans. The course focuses on works written by Americans of Chinese, Filipino, Japanese, Korean, and Vietnamese descent but also includes the work of other Pan-Asian American writers. Students explore the ways in which the experience of being Asian in America has shaped the literature and examine the differences and similarities of these experiences across cultures, generations, and genders. Optional field trips may be included.

ENGLT 335 Latino, Mexican-American, and Chicano Literature 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: LIBR 318 with a grade of "C" or better.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Optional field trips may be included.

ENGLT 345 Mythologies of the World 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course offers a thematic and regional approach to mythos 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, deeds of superhumans, the archetypal hero, and destruction, death and afterlife.

ENGLT 346 Latin American Literature 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 will be studied, for example, the Boom, the New Latin American Cinema, and magical realism. Major authors may include Nobel Prize winners Pablo Neruda, Gabriel Garcia Marquez, Rigoberta Menchu, and Octavio Paz. The course may examine both literary texts and films. Knowledge of some Spanish is helpful, but not required.

ENGLT 360 Women in Literature 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: LIBR318 with a grade of "C" or better
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course surveys literature by and/or about women. It empha-

sizes 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. Possible authors include Jane Austen, Charlotte Bronte, Virginia Woolfe, Harriet Jacobs, Zora Neale Hurston, Sylvia Plath, Flannery O'Conner, Maxine Hong Kingston, Sandra Cisneros, Leslie Marmon Silko, Toni Morrison, and others.

ENGLT 365 Introduction to Gay, Lesbian, Bisexual and Transgender Literature 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C2
Course Transferable to CSU
Hours: 54 hours LEC
This class will survey representative literature concerning gay, lesbian, bisexual, and transgender (GLBT) themes and issues as written by or about GLBT people from ancient times to the present day. The comprehensive literary study includes analysis of significant historical and cultural influences.

ENGLT 370 Children and Literature 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
"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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: LIBR 318 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: TA 310
Prerequisite: ENGWR 50 and ENGRD 11 or ESLR 310 and ESLW 310 with grades of "C" or better or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, poetry, and essays from sociology, psychology, and critical theory.

ENGLT 403 Film Adaptations 3 Units

Prerequisite: ENGWR 50, ESLR 50, or ESLW 50 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C1; CSU Area C; IGETC Area 3A; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 404 Documentary Film Studies 3 Units

Prerequisite: ENGWR 50 and ENGRD 11 or ESLR 310 and ESLW 310 with grades of "C" or better or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C1
Course Transferable to CSU
Hours: 54 hours LEC
In this course, students view, discuss, and analyze documentary films. Students will learn about the history of documentary films, viewing several classics. The course develops a vocabulary of film terminology and helps students to be able view documentaries aesthetically as well as for their content. Documentaries are analyzed as artistic expressions that develop out of their historical and cultural contexts. Students will view and discuss foreign language documentaries, contemporary box office hits, and independent film documentaries.

ENGLT 480 World Literature: Antiquity to the Early Modern World - Honors 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 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 one textual analysis and one research paper.

ENGLT 481 World Literature: Seventeenth Century to Present - Honors 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C; IGETC Area 3B
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 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 Literature 3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
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, The Hero in Fiction, The Love Story, The Literature of War. This course is not recommended as a substitute for genre or survey courses. It may be taken twice for credit.

ENGLT 495 Independent Studies in Literature 1-3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
Independent study allows a student or small group of students to work directly with an instructor independent from a structured class or course. The instructor and student(s) typically develop a contract together, outlining the course of study. Variable units enable maximum flexibility in creating this course of study.

ENGLT 499 Experimental Offering in Literature .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offering

English - Reading (ENGRD)

ENGRD 10 Basic Reading Skill Development 3 Units

Prerequisite: None
Hours: 54 hours LEC
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

Prerequisite: ENGRD 10 with a grade of "C" or better; or placement through the assessment process.
Advisory: ENGWR 40
Hours: 54 hours LEC
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

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.
Hours: 54 hours LEC
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 299 Experimental Offering in English-Reading — .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offering

ENGRD 310 Prose Analysis and Interpretation — 3 Units

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
Course Transferable to CSU
Hours: 54 hours LEC
AA/AS: Reading Competency*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.

ENGRD 495 Independent Studies in English-Reading — 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

ENGRD 499 Experimental Offering in English - Reading — .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offering

English - Writing (ENGWR)

ENGWR 40 Writing Skills — 3 Units

Prerequisite: None.
Corequisite: ENGWR 49 or a grade of "P" in ENGWR 49 in a previous semester.
Advisory: Concurrent enrollment in ENGRD 11.
Hours: 54 hours LEC
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 a grade of "P" or be enrolled concurrently in ENGWR 49.

ENGWR 49 Developmental English Skills — 2 Units

Prerequisite: None.
Hours: 36 hours LEC
This course offers practice in basic grammar, punctuation, usage, spelling, and sentence writing skills. ENGWR 49 is a co-requisite of ENGWR 40. However, the course is also open to other students seeking help to improve their grammar, punctuation, usage, spelling, and sentence writing skills. Students complete a required number of quizzes designed to reflect their mastery of specific writing skills. This course is taken for a Pass/No Pass grade.

ENGWR 50 Developmental Writing — 3 Units

Prerequisite: ENGWR 40 with a grade of "C" or better and ENGWR 49 with a grade of "P," or placement through the SCC assessment process.
Corequisite: ENGWR 59 or a grade of "P" in ENGWR 59 in a previous semester.
Advisory: Concurrent enrollment in ENGRD 110 and/or ENGLB 55
Hours: 54 hours LEC
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 at least three (3) 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 or be enrolled concurrently in ENGWR 59.

ENGWR 59 Intermediate English Skills — 2 Units

Prerequisite: ENGWR 40 with a grade of "C" or better and ENGWR 49 with a grade of "P"; or placement through the assessment process.
Hours: 36 hours LEC
This course offers an introduction to intermediate grammar, punctuation, and sentence-writing skills. Students take this course concurrently with ENGWR 50. This 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. This course is taken for a Pass/No Pass grade.

ENGWR 100 College Writing 3 Units

Prerequisite: ENGWR 50 with a grade of "C" or better; and ENGWR 59 with a "P" or placement through the SCC assessment process.
Advisory: Concurrent enrollment in ENGRD 310, ENGRD 110, and/or ENGLB 55; concurrent enrollment in ENGWR 59; concurrent enrollment in LIBR 318.
General Education: AA/AS Area II(a)
Hours: 54 hours LEC
This writing course uses individual 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.

ENGWR 299 Experimental Offering in English-Writing .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offering

ENGWR 300 College Composition 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the SCC assessment process.
Advisory: LIBR 318; Concurrent enrollment in ENGWR 59; completion of ENGRD 310 with a grade of "C" or better.
General Education: AA/AS Area II(a); CSU Area A2; IGETC Area 1A
AA/AS: Writing Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
This writing course emphasizes reading, writing, and critical thinking skills that are essential for successful completion of a four-year college program. Students write a minimum of 6,500 words divided among 6-8 essays, including at least one research paper and one inclass essay. This course satisfies the writing competency requirement for graduation.

ENGWR 301 College Composition and Literature 3 Units

Prerequisite: ENGWR 300 with a grade of "C" or better
General Education: AA/AS Area II(a); AA/AS Area I; CSU Area A3; IGETC Area 1B
Course Transferable to UC/CSU
Hours: 54 hours LEC
ENGWR 301 is an introduction to critical thinking and writing about work in the 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

Prerequisite: ENGWR 300 or 480 with a grade of "C" or better
Advisory: LIBR 318
General Education: AA/AS Area II(a); AA/AS Area II(b); CSU Area A3; IGETC Area 1B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course develops composition skills at the advanced level as well as analytical skills through writing, reading, and discussion. It examines methods by which people are persuaded to think, believe, and/or act. It also includes analyzing arguments or expressions of opinions for their validity and soundness and evaluating outside sources. Finally, it focuses on critically assessing, developing, supporting, and effectively expressing opinions on issues. It emphasizes thinking clearly and organizing thought carefully in writing by using principles of logic. This course includes writing a minimum of 6,500 words.

ENGWR 330 Writing for Publication 3 Units

Same As: JOUR 340
Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 54 hours LEC
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. Credit may be awarded for ENGWR 330 or JOUR 340, but not both.

ENGWR 330.1 Writing for Publication: Writing and Editing Concentration 1.5 Units

Same As: JOUR 340.1
Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 27 hours LEC
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. Credit may be awarded for ENGWR 330.1 or JOUR 340.1, but not both.

ENGWR 330.2 Writing for Publication: Marketing Concentration 1.5 Units

Same As: JOUR 340.2
Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 27 hours LEC
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. Credit may be awarded for ENGWR 330.2 or JOUR 340.2, but not both.

ENGWR 384 Mass Media and Society 3 Units

Same As: COMM 351 and JOUR 310
Prerequisite: None.
Advisory: ENGWR 100 or ESLW 320 with a "C" or better.
General Education: AA/AS Area V(b); CSU Area D4; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, and processes and effects from a social science perspective. (Credit may be awarded for COMM 351, ENGWR 384 or JOUR 310.)

ENGWR 480 Honors College Composition 3 Units

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.
General Education: AA/AS Area II(a); CSU Area A2; IGETC Area 1A
AA/AS: Writing Competency
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course 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, workshops rough drafts, and may collaborate on presentations or projects.

ENGWR 482 Honors Advanced Composition and Critical Thinking 3 Units

Prerequisite: ENGWR 300 or 480 with a grade of "C" or better
General Education: AA/AS Area II(a); AA/AS Area II(b); CSU Area A3; IGETC Area 1B
Enrollment Limitation: Eligibility for the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
ENGWR 482 is a course in critical reasoning, reading, and writing requiring a high level of competence in English composition. Complex texts (essay and book-length works) reflecting a variety of cultural, historical, and philosophical perspectives will be read, discussed, and analyzed. The course includes inductive and deductive reasoning, analysis of fallacious reasoning, and use of persuasive language. The minimum word requirement of 6,500 words will be divided among at least four formal essays, ranging from 1,000-3,000 words each, two of which will include primary and secondary research and MLA format. Several group and individual class presentations will be required.

ENGWR 495 Independent Studies in English-Writing 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

ENGWR 499 Experimental Offering English-Writing .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offering

English as a Second Language ESL, ESLG, ESLL, ESLP, ESLR, ESLW

Division of Language and Literature

Albert Garcia, Dean

Rodda South 226

916-558-2325

ESL Assessment Requirement
Students who speak a language other than English at home are strongly advised to complete the Sacramento City College ESL assessment process in order to place in the appropriate level of instruction.

Success in ESL Courses
The success of our students is of utmost importance to us at Sacramento City College. For that reason, we strongly advise students to develop basic language skills: listening, speaking, reading, and writing.

By listening and speaking, we mean understanding and remembering what you hear during lectures, and conversing and interacting successfully with native speakers of English.

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 expressing your ideas correctly, punctuating accurately, using the grammar of standard written English, and organizing ideas into paragraphs and essays that are clear, unified, and coherent.

With a strong foundation in all language skills, your opportunities for success in college-level classes will be greatly increased.

English as a Second Language (ESL)

ESL 40 ESL Through Computer Technology 4 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 and/or ESLR 40 and/or ESLW 40 or other ESL courses at the appropriate level.
Hours: 72 hours LEC
The course is designed to introduce ESL students to essential vocabulary and language skills 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 Pass/No Pass only.

ESL 92 ESL Center: Intermediate Independent Lab .5-1 Units

Prerequisite: ESLL 30, ESLR 30, or ESLW 30 with a grade of "C" or better, or placement in level 40 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least one ESL course
Hours: 54 hours LAB
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 the use of the English language. Students may register until the end of the tenth week of the semester if space allows. This course is Pass/No Pass and is not a substitute for other ESL courses. Students must complete 27 hours of work to earn 0.5 units of credit. Students may earn up to one unit per semester. This course may be taken a maximum of four times for credit, for a maximum of 4 units.

ESL 93 ESL Center: Advanced Independent Lab .5-1 Units

Prerequisite: ESLG 310, ESLR 310, or ESLW 310 with a grade of "C" or better, or placement in level 320 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least one ESL course
Hours: 54 hours LAB
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 the use of the English language. Students may register until the end of the tenth week of the semester if space allows. This course is credit/no credit and is not a substitute for other ESL courses. Students must complete 27 hours of work to earn 0.5 units of credit. Students may earn up to one unit per semester. This course may be taken a maximum of four times for credit, for a maximum of 4 units.

ESL 114 Career Communication Skills: Intermediate 4 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 91 with a grade of "P," ESLL 50 with a grade of "C" or better, and 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.
Hours: 72 hours LEC
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 299 Experimental Offering in English as a Second Language .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
This is an experimental course offering designed to provide students with courses not normally offered by the ESL department. Course topics will be structured around new and emerging issues related to the field of ESL.

ESL 324 Career Communication Skills: Advanced 4 Units

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
Course Transferable to CSU
Hours: 72 hours LEC
This course 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.

ESL 495 Independent Studies in English as a Second Language 1-3 Units

Prerequisite: None.
Course Transferable to CSU
Hours: 54 hours LEC
An independent studies project involves an individual student or small group of students in study, research, or activities beyond the scope of regularly offered courses.

ESL 499 Experimental Offering in English as a Second Language .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
This is an experimental course offering designed to provide students with courses not normally offered by the ESL department. Course topics will be structured around new and emerging issues related to the field of ESL.

ESL - Grammar (ESLG)

ESLG 50 Intermediate-Mid Grammar 4 Units

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.
Hours: 72 hours LEC
This course concentrates on the fundamental grammatical structures of English at the Intermediate-Mid Level. Students will develop skill and accuracy in using these grammatical structures in appropriate contexts. Oral and written practice activities emphasize verb tenses and sentence structure.

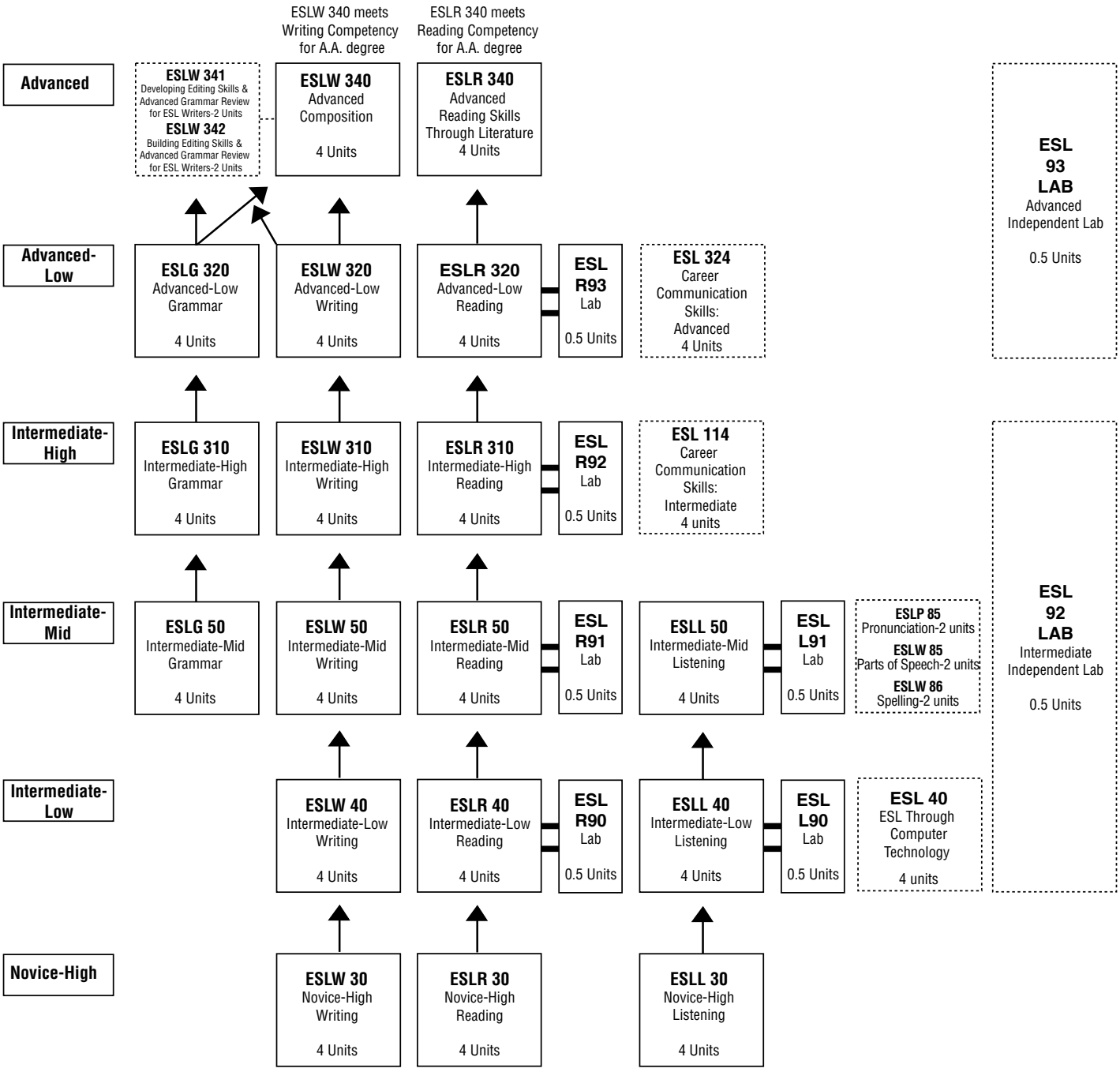
ESLG 310 Intermediate-High Grammar 4 Units

Prerequisite: Eligibility is determined by the completion of ESLG 50 with a grade of "C" or better, or by the Sacramento City College assessment process.
Advisory: ESL 92, ESLW 310, and ESLR 310, or other ESL courses at the appropriate level.
Course Transferable to CSU
Hours: 72 hours LEC
This course focuses on further practice of the forms, meanings, and usage of grammatical structures of English at the Intermediate-High level with an emphasis on verb usage. Students will continue to develop their skills and accuracy in using these grammatical structures in appropriate contexts. Both oral and written activities will focus on verb tenses, noun phrase formation, and time clauses.

ESLG 320 Advanced-Low Grammar 4 Units

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.
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course focuses on the forms and meanings of major structures used in writing at the Advanced-Low level 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.

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.

ESLG 499 Experimental Offering in English as a Second Language - Grammar .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
This is an experimental course offering designed to provide students with courses not normally offered by the ESL department. Course topics will be structured around new and emerging issues related to the field of ESL.

ESL Listening Skills (ESLL)

ESLL 30 Novice-High Listening and Speaking 4 Units

Prerequisite: None.
Advisory: ESLR 30 and ESLW 30 or other ESL courses at the appropriate level, advise adult school before taking ESLL 30.
Hours: 72 hours LEC
This is a Novice-High course in listening comprehension and practical conversation for non-native English speakers who plan to take college courses. Students will gain information about U.S. culture and customs and build on their basic communication skills by exploring academic topics such as college life, education, employment, community issues, family, health, recreational activities, and geography. They will learn to recognize and use the sounds of English, stress, rhythm, and intonation patterns.

ESLL 40 Intermediate-Low Listening and Speaking 4 Units

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: Students are advised to concurrently take ESLW 40 and ESLR 40 or other ESL courses as needed.
Hours: 72 hours LEC
This course helps students at the Intermediate-Low Level 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, a review of American English sounds, and practice in stress, rhythm, and intonation.

ESLL 50 Intermediate-Mid Listening and Speaking 4 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 90 with a grade of "P" and 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.
Hours: 72 hours LEC
This is a course to help students at the Intermediate-Mid level understand and be understood in both familiar and unfamiliar situations. Students will be introduced to academic listening and speaking activities, including note-taking skills, and will continue to work on pronunciation skills.

ESLL 90 ESL Center: Intermediate-Low Listening Skills in ESL .5-1 Units

Prerequisite: ESLL 30, ESLR 30, or ESLW 30 with a grade of "C" or better, or placement in level 40 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least one ESL course
Hours: 54 hours LAB
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 tenth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other English as a Second Language courses. Students must complete 27 hours of work to earn 0.5 units of credit. 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 Units

Prerequisite: ESLL 40, ESLR 40, or ESLW 40 with a grade of "C" or better, or placement in level 50 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least on ESL course
Hours: 54 hours LAB
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 tenth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other English as a Second Language courses. Students must complete 27 hours of work to earn 0.5 units of credit. 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

Prerequisite: ESLL 40 with a grade of "C" or better; or placement through the assessment process.
Hours: 36 hours LEC
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 practice American English intonation patterns, syllable number and stress, and sentence rhythm and stress. This course may be taken one time for credit.

ESL - Reading (ESLR)

ESLR 30 Novice-High Reading 4 Units

Prerequisite: None.
Advisory: ESLL 30 and ESLW 30 or other ESL courses at the appropriate level; advise adult school before taking ESLR 30.
Hours: 72 hours LEC
This course focuses on reading words, phrases, sentences, and paragraphs in short texts at the Novice-High level. Students will learn core vocabulary, spelling rules, phonetics, and grammar necessary to understand short readings.

ESLR 40 Intermediate-Low Reading 4 Units

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 English as a Second Language courses at the appropriate level
Hours: 72 hours LEC
This course focuses on developing academic reading skills at the Intermediate-Low level with an emphasis on building vocabulary and literal comprehension, and increasing fluency. Students will discuss and write about readings.

ESLR 50 Intermediate-Mid Reading 4 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 90 with a grade of "CR" and ESLR 40 with a grade of "C" or better.
Corequisite: ESLR 91
Advisory: ESLL 50, ESLW 50, ESLG 50, or other English as a Second Language courses at the appropriate level
Hours: 72 hours LEC
This course focuses on developing academic reading skills at the Intermediate-Mid level, with an emphasis on vocabulary expansion, literal comprehension, inference, 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 Reading Skills in ESL .5-1 Units

Prerequisite: ESLL 30, ESLR 30, or ESLW 30 with a grade of "C" or better, or placement in level 40 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least one ESL course
Hours: 54 hours LAB
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 tenth week of the semester if space allows. This course is graded credit/no credit and is not a substitute for other English as a Second Language courses. Students must complete 27 hours of work to earn 0.5 units of credit. They may earn 0.5 to 1.0 units per semester and may take this course a maximum of four times for credit.

ESLR 91 ESL Center: Intermediate-Mid Reading Skills in ESL .5-1 Units

Prerequisite: ESLL 40, ESLR 40, or ESLW 40 with a grade of "C" or better, or placement in level 50 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least one ESL course
Hours: 54 hours LAB
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 tenth week of the semester if space allows. The course is graded Pass/No Pass and is not a substitute for other English as a Second Language courses. Students must complete 27 hours of work to earn 0.5 units of credit. 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 Units

Prerequisite: ESLL 50, ESLR 50, or ESLW 50 with a grade of "C" or better, or placement in level 310 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least one ESL course
Hours: 54 hours LAB
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 tenth week of the semester if space allows. The course is graded Pass/No Pass and is not a substitute for other English as a Second Language courses. Students must complete 27 hours of work to earn 0.5 units of credit. 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 Units

Prerequisite: ESLG 310, ESLR 310, or ESLW 310 with a grade of "C" or better, or placement in level 320 or above through the Sacramento City College assessment process
Advisory: Concurrent enrollment in at least one English as a Second Language course
Hours: 54 hours LAB
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 tenth week of the semester if space allows. The course is graded Pass/No Pass and is not a substitute for other English as a Second Language courses. Students must complete 27 hours of work to earn 0.5 units of credit. 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

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 91 with a grade of "P" and ESLR 50 with a grade of "C" or better.
Corequisite: ESLR 92
Advisory: Concurrent enrollment in ESLG 310 and ESLW 310, or other ESL courses at the appropriate level.
Course Transferable to CSU
Hours: 72 hours LEC
This course focuses on developing academic reading skills at the Intermediate-High level 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 orally and in writing to ideas expressed in fiction and non-fiction readings.

ESLR 320 Advanced-Low Reading 4 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 92 with a grade of "P" and 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.
Course Transferable to CSU
Hours: 72 hours LEC
This course focuses on refining academic reading skills at the Advanced-Low level with an emphasis on speed, vocabulary expansion, and analytical comprehension. Students will expand their skills in using the library to practice research. Students will use critical thinking skills to paraphrase, summarize, and synthesize readings. They will also do extensive discussion and writing based on critical analysis of readings.

ESLR 340 Advanced Reading Skills Through Literature 4 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 93 with a grade of "P" and ESLR 320 with a grade of "C" or better.
Advisory: ESL 93, ESLW 340, or ESLW 341, or other ESL courses at the appropriate level
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C
AA/AS: Reading Competency
Course Transferable to UC/CSU
Hours: 72 hours LEC
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 cultural groups. Students will also examine the historical and cultural environments in which the literature was created. Reading selections include 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. This course fulfills the Reading Competency requirement for the A.A. and A.S. degrees.

ESLR 499 Experimental Offering in English as a Second Language - Reading .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
This is an experimental course offering designed to provide students with courses not normally offered by the ESL department. Course topics will be structured around new and emerging issues related to the field of ESL.

ESL - Writing (ESLW)

ESLW 30 Novice-High Writing 4 Units

Prerequisite: None.
Advisory: ESLR 30 and ESLL 30 or other ESL courses at the appropriate level. Advise adult school before taking ESLW 30.
Hours: 72 hours LEC
In this Novice-High writing 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.

ESLW 40 Intermediate-Low Writing 4 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or by 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.
Hours: 72 hours LEC
In this course, students will learn to write multiple drafts of paragraphs with a clear beginning, middle, and end while developing correct sentence structure at the Intermediate-Low level. They will learn to use critical thinking skills and level-appropriate grammar in their writing.

ESLW 50 Intermediate-Mid Writing 4 Units

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 English as a Second Language courses at the appropriate level.
Hours: 72 hours LEC
This is a course for non-native English speakers at the Intermediate-Mid Level that focuses first on the development of paragraph writing in a variety of rhetorical modes through guided writing and practice. By the end of the semester, students will be writing multi-paragraph essays. Students will learn techniques essential to essay writing and continue to develop sentence structure skills.

ESLW 85 Parts of Speech 2 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 40 and ESLR 40 with grades of "C" or better or ENGWR 40 with a grade of "C" or better.
Hours: 36 hours LEC
This 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.

ESLW 86 Spelling 2 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 40 and ESLW 40 with grades of "C" or better or completion of ENGWR 40 with a grade of "C" or better.
Hours: 36 hours LEC
This 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 to recognize and differentiate homophones, and to recognize and utilize common affixes and plurals. Students will develop competence in the ability to spell.

ESLW 299 Experimental Offering in English as a Second Language-Writing .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
This is an experimental course offering designed to provide students with courses not normally offered by the ESL department. Course topics will be structured around new and emerging issues related to the field of ESL.

ESLW 310 Intermediate-High Writing 4 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 50 with a grade of "C" or better.
Advisory: ESL 92, ESLG 310 and ESLR 310, or other ESL courses at the appropriate level; BUSTEC 300
Course Transferable to UC/CSU
Hours: 72 hours LEC
In this course, students at the High-Intermediate level will develop their ability to respond to a variety of essay assignments. They will use the writing process to produce developed, organized, and unified essays. They will practice critical thinking skills through class discussion and written response to readings. They will refine their ability to control a range of grammatical structures.

ESLW 320 Advanced-Low Writing 4 Units

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.
Course Transferable to UC/CSU
Hours: 72 hours LEC
In this course, students will use critical thinking skills and the writing process to produce a variety of focused, developed, and organized essays at the Advanced-Low level. The course emphasizes the development of ideas in body paragraphs, and the analysis and use of readings as a basis for ideas in essays. Sentence variety and the mechanics of English in the context of the essay are also covered in the course. Essays incorporate ideas and quotations from outside sources as well as personal experience.

ESLW 340 Advanced Composition 4 Units

Prerequisite: Eligibility is determined by completion of ESLG 320 and ESLW 320 with grades of "C" or better, or by assessment through the Sacramento City College assessment process.
Advisory: ESL 93, ESLW 341 and ESLR 340, or other ESL courses at the 340 level or below; LIBR 318, BUSTEC 300
General Education: AA/AS Area II(a); CSU Area A2
AA/AS: Writing Competency
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course emphasizes advanced writing and critical thinking skills that are essential for successful completion of a four-year college program. Writing assignments include expository and argumentative prose based on analysis of a variety of readings. Students write a minimum of 8,500 words divided among 6-8 essays, including one fully documented research paper and two to three in-class essays. This course satisfies the Writing Competency for AA/AS graduation requirement, the California State University General Education-Breadth requirements for Area A2, and may satisfy some required composition coursework at California State Universities.

ESLW 341 Developing Editing Skills and Advanced Grammar Review for ESL Writers 2 Units

Prerequisite: ESLG 320 with a grade of "C" or better and either completion with a grade of "C" or better or concurrent enrollment in ESLW 320 or ESLW 340; or completion with a grade of "C" or better or concurrent enrollment in ENGWR 100; or placement through the Sacramento City College assessment process.
Course Transferable to CSU
Hours: 36 hours LEC
This course is designed to increase awareness of common higher level ESL grammar errors typical to the composition process. Reading, writing, and editing assignments focus on improved analysis and the development of self-help strategies. Assignments focus on sentence structure and the English verb system. This course is most beneficial when taken concurrently with an advanced writing course. This course may be taken before or after ESLW 342. ESLW 341 may be taken for a letter grade or for Pass/No Pass grading.

ESLW 342 Building Editing Skills and Advanced Grammar Review for ESL Writers 2 Units

Prerequisite: ESLG 320 with a grade of "C" or better and either completion with a grade of "C" or better or concurrent enrollment in ESLW 320 or ESLW 340; or completion with a grade of "C" or better or concurrent enrollment in ENGWR 100; or placement through the Sacramento City College assessment process.
Course Transferable to CSU
Hours: 36 hours LEC
This course is designed to increase awareness of common higher level ESL grammar errors typical to the composition process. Reading, writing, and editing assignments focus on improved analysis and the development of self-help strategies. Assignments focus on clarity, conciseness, and punctuation. This course is most beneficial when taken concurrently with an advanced writing course. This course may be taken before or after ESLW 341. ESLW 342 may be taken for a letter grade or for Pass/No Pass grading.

ESLW 499 Experimental Offering in English as a Second Language - Writing .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
This is an experimental course offering designed to provide students with courses not normally offered by the ESL department. Course topics will be structured around new and emerging issues related to the field of ESL.

Ethnic Studies

Associate in Arts Degree

African-American Emphasis

Asian-American Emphasis

Mexican-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

Program Information
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.

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, 330; ANTH 310, 430, 431; PSYC 367; SOC 300, 321

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.

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, 317, 320, 341; ARTH 332; CANT 401, 402, 411, 412; JAPAN 401, 402, 411, 412; MAND 401, 402, 411, 412; PSYC 367; SOC 300, 321; TGLG 401, 402; VIET 401, 402

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.

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 (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.

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 (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.

Experimental Offering In (Subject)

499 Experimental Offering in (Subject) .5-4 Units
299 Not transferable

499 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. 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 499
BUSTEC 299, 499
CANT 499*
CHEM 299, 499*
COMM 499*
COMDE 499
CISA 499
CISC 299, 499
CISN 299, 499
CISP 499
CISW 499
COSM 299
DANCE 499*
DAST 299
DHYG 299
ECE 299, 499
ECON 299, 499*
EDT 499
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
HCD 299, 499
HEED 499
HIST 499*
HSER 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
NUTRI 499
OTA 299
PACT 499*
PHIL 499*
PHOTO 299, 499
PET 499*
PTA 299
PHYS 499*
POLS 499*
PSYC 499*
PNJABI 499
RAILR 299
RE 499
RECR 499
RUSS 499*
SILA 499
SOCSC 499*
SOC 499*
SPAN 299, 499*
STAT 499*
SGVT 499
SURVY 499
TA 499*
TGLG 499
TMACT 499*
VIET 499
VN 299

Family and Consumer Science FCS

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

Please find degree and certificate program requirements and detailed course listings under their respective programs:

Early Childhood Education, Degrees and Certificate of Achievements

Fashion, Degrees and Certificate of Achievements

Gerontology, Degree and Certificate of Achievement

Instructional Assisting, Degrees and Certificate of Achievements

Interior Design Sewing, Degree and Certificate of Achievement (see Fashion and Interior Design)

Liberal Studies for Elementary Teachers, Degree

Nutrition courses

Family and Consumer Science

Associate in Arts Degree

Program Information

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 Science 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

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).

Upon completion of this program, the student will be able to:

- integrate knowledge across a wide range of contexts in the area of Family and Consumer Science.
- locate, evaluate, and use information effectively.
- write with precision and clarity to express complex thought.
- read college-level materials with understanding and insight.
- maintain and transfer academic and technical skills to workplace.
- be life-long learners.
- demonstrate understanding of and tolerance for ethnic, religious, gender, age, and socioeconomic diversity.
- research and evaluate current trends related to content areas.

Required Program	Units
FCS 340 Nutrition	3
FCS 344 Food Theory and Preparation	4
FASHN 320 Textiles	3
FASHN 310 Fashion Analysis/Clothing Selection	3
FASHN 351 Principles of Apparel Construction/Intermediate Sewing	3
FCS 320 Marriage and the Family (3)	3
or SOC 310 Marriage and the Family (3)	
FCS 314 The Child, the Family and the Community (3)	3
or SOC 312 The Child, the Family and the Community (3)	
or ECE 314 The Child, the Family and the Community (3)	
FCS 330 Sociology of Aging (3)	3
or GERON 300 Sociology of Aging (3)	
or SOC 335 Sociology of Aging (3)	
IDES 300 Fundamentals of Interior Design	3
FCS 332 Psychology of Aging: Adult Development and Aging (3)	3
or GERON 302 Psychology of Aging: Adult Development and Aging (3)	
or PSYC 374 Psychology of Aging: Adult Development and Aging (3)	
ECE 323 The Effective Parent-Teacher (3)	3
or ECE 322 Promoting Children's Social Competence (3)	
Total Units Required	**34**

Suggested Electives
ECE 415, FCS 312, 324, 342; 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

Prerequisite: None
Hours: 72 hours LEC
This course is 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. Topic courses may be taken four times up to a maximum of 16 units with no duplication of topics.

FCS 295 Independent Studies in Family and Consumer Science 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

FCS 294 Topics in Family and Consumer Science .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
This course is 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. Topic courses may be taken four times up to a maximum of 16 units with no duplication of topics.

FCS 295 Independent Studies in Family and Consumer Science 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

FCS 304 Concepts in Personal Finance 3 Units

Same As: BUS 320
Prerequisite: None
Advisory: ENGWR 50 or ESLW 50 with a grade of "C" or better.
General Education: AA/AS Area III(b); CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
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. Students may receive credit for FCS 304 or BUS 320 but not for both.

FCS 306 Family Law Issues 3 Units

Same As: ADMJ 326
Prerequisite: None
Advisory: ENGWR 100 with grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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. Students may receive credit for FCS 306 or ADMJ 326 but not for both.

FCS 312 Child Development 3 Units

Same As: ECE 312
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 V(b); CSU Area D7; CSU Area D9; CSU Area E1; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, but not both.)

FCS 314 The Child, the Family and the Community 3 Units

Same As: ECE 314 and SOC 312
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FCS 312 or ECE 312; and LIBR 318 with grades of "C" or better
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D0; CSU Area D7; CSU Area E1; IGETC Area 4G; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an examination of the developing child in a societal context focusing on the interrelationship of family, school, and community and emphasizing historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. 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. (Students may receive credit for ECE 314, FCS 314, or SOC 312, maximum one course.)

FCS 320 Marriage and the Family 3 Units

Same As: SOC 310
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 V(b); AA/AS Area III(b); CSU Area D7; CSU Area E1; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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
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 V(b); CSU Area D9; CSU Area E1; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
Students will study the physical, cognitive, social, and emotional development of humans from conception through the life span. Emphasis will be placed on the theoretical and practical application of developmental principles. Topics include major developmental theories, conception and prenatal development, physical growth, health and development, language, learning, cognitive, and brain development, personality,morality, and emotional development, societal influences on development, and mental health, and an introduction to death and bereavement. 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
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 V(b); CSU Area D0; CSU Area D4; CSU Area E1; IGETC Area 4D; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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
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 V(b); AA/AS Area III(b); CSU Area D0; CSU Area E1; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: GERON 302 and PSYC 374
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100, or ESLR 340 and ESLW 340 and ESL 114, and FCS 324 or PSYC 370, and LIBR 318 with grades of "C" or better
General Education: AA/AS Area III(b); CSU Area D9; CSU Area E1; IGETC Area ; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
Students will explore the description and explanation of the evolution of adult behavior over the life span. Topics include theoretical as well as practical approaches to understanding aging in terms of physical, cognitive, and socio-emotional development such as: the study of the nature and changes of capabilities, skills, feelings, emotions, and social behavior with age, aging stereotypes, social bonds, environmental factors, sexuality, physical health, mental health, death and bereavement. (Credit for FCS 332 or PSYC 374 or GERON 302.)

FCS 340 Nutrition 3 Units

Same As: NUTRI 300
Prerequisite: None
Advisory: ESLR 320 and ESLW 320 or ESL 114; and MATH 34; with grades of "C" or better.
General Education: AA/AS Area III(b); AA/AS Area IV; CSU Area E1
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Same As: NUTRI 310
Prerequisite: None
Advisory: ENGWR 50 and ENGRD 110; or ESLW 320 and ESLR 320; and MATH 34 with grades of "C" or better
General Education: AA/AS Area VI
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 Food Theory and Preparation 3 Units

Prerequisite: None
Advisory: ENGWR 50 and MATH 27 with grades of "C" or better.
General Education: CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
This course provides a comprehensive study of food ingredients and the basic principles and techniques involved in food preparation. It will also examine the factors that influence foods and the changes that occur in foods during preparation. The laboratory emphasizes basic cooking skills and theory applications. The emphasis in this course is on the reasons for procedures and phenomena and the prevention and/or correction of cooking failures.

FCS 346 Children's Health, Safety and Nutrition 3 Units

Same As: ECE 415 and NUTRI 320
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318; and MATH 34; and ECE 410; and FCS 312 or ECE 312; and FCS 314 or ECE 314 or SOC 312; and NUTRI 300 with grades of "C" or better
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
The key components that ensure the health, safety, and nutrition of both children and staff will be identified along with the importance of collaboration with families and health professionals. Students will be introduced to early childhood curriculum, regulations, standards, policies, and procedures related to child health, safety, and nutrition. Course emphasis is placed on integrating and maintaining the optimal health, safety, and nutritional concepts in everyday planning and program development for all children. Projects related to health, safety, and nutrition education as well as optional field trips may be included as part of the curriculum. (Students may receive credit for exactly one of the following: ECE 415, FCS 346, or NUTRI 320.)

FCS 480 Nutrition Honors 3 Units

Same As: NUTRI 480
Prerequisite: None
General Education: AA/AS Area III(b); AA/AS Area IV; CSU Area E1
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This is an enriched study of nutrition for honors students. The course uses a seminar model to study nutrients and their physiological functions. Current issues such as: food safety, vegetarian diets, world hunger, trans-fats, and vitamin/mineral supplementation are examined. Students analyze and evaluate their diet using diet analysis software. Scientific research methods are studied in journal articles for weekly discussions. Debates encourage critical thinking from opposing points of view. Students will research and present portions of the course material. This Honors section uses an intensive instructional methodology designed to challenge motivated students.

FCS 495 Independent Studies in Family and Consumer Science **1-3 Units**

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

FCS 499 Experimental Offering in Family and Consumer Science **.5-4 Units**

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Experimental Offerings

Fashion and Interior Design FASHN, IDES

Associate in Arts Degree
Certificate of Achievement
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 Certificate of Achievement
Custom Apparel Construction and Alterations, Degree and Certificate of Achievement
Interior Design Sewing, Degree and Certificate of Achievement
Production Sewing, Certificate of Completion, Level 2

Fashion Design and Production

Associate in Arts Degree
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- draw the clothed figure rendering the sketch in different styles, poses and fabrications on developed croquis in different media emphasizing presentation techniques.
- assemble apparel and interior design soft furnishing products applying techniques that meet the standards of quality construction for sewn products.
- integrate proper use, care and maintenance of sewing machinery, equipment and notions.
- apply pattern and fabric selection to appropriate designs that develop required sewing skills.
- apply layout and cutting techniques, use of industrial machines, professional pressing techniques, quality control and production procedures, grading, sorting and labeling.
- manipulate pattern blocks and develop style changes with the flat pattern method of designing first patterns from a designer's trade sketch for targeted customers.
- use garment industry terminology and procedures for the process of marker making, multiple layer lay up and use of industrial cutting equipment.
- construct devices to apply the evaluation of fit problems and the ability to solve figure differences in the garment through fitting skills.
- manipulate fabrics on a dress form to create designs without the use of drafted patterns using a variety of fabrics and design concepts.
- study and apply the elements and principles of design as related to apparel for individuals in contemporary western fashion as compared to the influence of past fashions and other cultures.
- analyze and identify textile fibers, yarns, fabrications, dyestuffs and finishes and how they relate to performance and serviceability of materials.
- survey the evolution of apparel styles through history and explore the relationship of recurring style trends to contemporary fashions including sociological, technological, economic and political factors.
- use microcomputers and Computer Aided Design (CAD) software for the apparel design processes used by manufacturers.
- develop basic patterns and sloper blocks utilizing standard and custom body measurements.
- demonstrate personal management skills such as planning, time management, coping with anxiety and the ability to work cooperatively with others.

Required Program	Units
FASHN 140 Fashion Illustration	2
FASHN 150 Fundamentals of Sewing/Beginning Sewing	3
FASHN 153 Serger Fundamentals	3
FASHN 160 Beginning Industrial and Production Sewing	4
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 351 Principles of Apparel Construction/Intermediate Sewing	3
FASHN 372 Pattern Making and Design	3
FASHN 376 Advanced Design - Drafting, Advanced Flat Pattern Techniques and Computer Aided Design	3
Total Units Required	**36**

Suggested Electives
FASHN 153, 158, 161, 198, 352, 355, 356, 360, 370, 372; ACCT 101, 301; 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.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- analyze and identify textile fibers, yarn fabrications, dyestuffs and finishes and how they relate to performance and serviceability of materials.
- apply the elements and principles of design as related to apparel for individuals in contemporary western fashion as compared to the influence of past fashion and other cultures.
- assemble apparel and interior design soft furnishing products applying techniques that meet the standards of quality construction for sewn products.
- integrate proper use, care and maintenance of sewing machinery, equipment and notions.
- apply pattern and fabric selection to appropriate designs that develop required sewing skills.
- demonstrate the ability to make garment pieces fit each other and the body that wears them; adjust patterns to body measurements and contours.
- manipulate pattern blocks and develop style changes with the flat pattern method of designing first patterns from a designer's trade sketch for targeted customers.
- exhibit on-the-job skills such as punctuality, working with people, negotiating, pricing, record keeping, communicating, resource development and professional practices.
- analyze the fit of ready-to-wear and custom sewn garments and solve fitting problems, using industry methods and equipment.
- construct devices to apply the evaluation of fit problems and the ability to solve figure differences in the garment through fitting skills.
- manipulate fabrics on a dress form to create designs without the use of drafted patterns using a variety of fabrics and design concepts.

Required Program	Units
FASHN 150 Fundamentals of Sewing/Beginning Sewing	3
FASHN 153 Serger Fundamentals	3
FASHN 182 Making Your Own Dress Form	3
FASHN 183 French Draping	3
FASHN 198 Sewing as a Business	3
FASHN 310 Fashion Analysis/Clothing Selection	3
FASHN 320 Textiles	3
FASHN 351 Principles of Apparel Construction/Intermediate Sewing	3
FASHN 352 Advanced Apparel Construction/Couture Sewing	3
FASHN 355 Traditional Tailoring (3) or FASHN 356 Contemporary Tailoring (3)	3
FASHN 360 Clothing Alterations	3
FASHN 370 Pattern Adjustment and Fit	3
FASHN 372 Pattern Making and Design	3
Total Units Required	**39**

Suggested Electives
FASHN 140, 158, 160, 161, 355, 356, 376; ACCT 101, 301; BUS 106, 220; CISC 300; 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.

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

Interior Design Sewing

Associate in Arts Degree
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- analyze and identify textile fibers, yarns, fabrications, dyestuffs and finishes and how they relate to performance and serviceability of materials.
- assemble apparel and interior design table accessories, pillows, cushions, chair coverings, bedding, window shades, curtains, draperies, and window top treatments applying techniques that meet the standards of quality construction for sewn soft furnishing products.
- integrate proper use, care and maintenance of sewing machinery, equipment and notions.
- apply pattern and fabric selection to appropriate product designs that develop required sewing skills.
- apply design principles and elements in planning total interior environments that meet individual, functional, legal and environmental needs; selection of all materials and products will be emphasized for functional aesthetic quality.
- analyze, apply and evaluate products and materials used in interiors; emphasis placed on the processes, materials and resources for products in furniture, wall coverings, floor coverings, window treatments, lighting, architectural finishes and ceiling systems.
- apply layout and cutting techniques, use of industrial machines, professional pressing techniques, quality control and production procedures, grading, sorting and labeling.
- use garment industry terminology and procedures for the processes of marker making, multiple layer lay up using industrial cutting equipment.
- demonstrate personal management skills such as planning, time management, coping with anxiety and the ability to work cooperatively with others.

Required Program	**Units**
FASHN 150 Fundamentals of Sewing/Beginning Sewing	3
FASHN 153 Serger Fundamentals	3
FASHN 160 Beginning Industrial and Production Sewing	4
FASHN 320 Textiles	3
IDES 300 Fundamentals of Interior Design	3
IDES 322 Materials of Interior Design	3
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, 220; CISC 300; FASHN 161, 198, 351; 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.

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

Production Sewing

Certificate of Completion, Level 2

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**

Certificate of Completion
The Certificate of Completion may be obtained by completion of the required courses with grades of "C" or better or equivalent.

Fashion (FASHN)

FASHN 140 Fashion Illustration 2 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320 or ESL 114; and LIBR 318 with grades of "C" or better.
Hours: 18 hours LEC; 54 hours LAB
This course explores the processes of fashion design and illustration through two-dimensional media. Illustration is reemerging as a key medium in the representation and marketing of fashion. Students are introduced to the application of different media in relation to both design development and illustration. The emphasis is on individual instruction and practical demonstration. Topics to be covered include: figure drawing, media skills, fabric interpretation, and personal style. Students will create a portfolio of specific illustration techniques as applied to the fashion promotion, fashion design, and theatrical costume design industries.

FASHN 141 Fashion Illustration Portfolio 2 Units

Prerequisite: FASHN 140 with a grade of "C" or better
Hours: 18 hours LEC; 54 hours LAB
This course is intended for students who wish to present a portfolio of work in fashion design-related industries for the purpose of job interviews or admission to a four-year art/design school. Through lecture, demonstration, hands-on methods and research into fashion history; students will improve and personalize their illustration and design style while gaining understanding of the aesthetics, organization and physical preparation in creating a portfolio of work. Topics include fashion history, portfolio mediums, mounting and presentation, self-promotion, resumes, pursuing a job or school transfer, and interviewing for a creative position.

FASHN 150 Fundamentals of Sewing/ Family and Consumer Science 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320 or ESL 114; and LIBR 318; and MATH 34 with grades of "C" or better.
Hours: 36 hours LEC; 54 hours LAB
This course covers the basic techniques for construction of men's, women's, and children's clothing and home accessories. Materials and sewing supplies selection, sewing machine operation, reading pattern instructions, and simple construction techniques are included. This course is designed for the student with little or no previous sewing experience. One field trip is required. This course may be taken two times for credit providing there is no duplication of topics.

FASHN 153 Serger Fundamentals 3 Units

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 LIBR 318; and MATH 34 with grades of "C" or better.
Hours: 36 hours LEC; 54 hours LAB
This course will cover basic operation, care, and use of serger sewing machines. Students will also learn about the various types, their features, accessories, tools, and notions necessary for constructing serger projects. This course may be taken two times for credit providing there is no duplication of topics.

FASHN 158 Fashion Accessories 3 Units

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320 or ESL 114; and LIBR 318; and MATH 34 with grades of "C" or better.
Hours: 36 hours LEC; 54 hours LAB
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 materials and trims resources, production and marketing techniques, and the history and identification of various accessory items, along with basic manufacturing processes.

FASHN 160 Beginning Industrial and Production Sewing 4 Units

Prerequisite: FASHN 150 and 153 with grades of "C" or better
Advisory: FASHN 320, 351, and 372 with grades of "C" or better
Hours: 36 hours LEC; 108 hours LAB
This course provides training in basic marker making, laying up small pieces and rolls of materials, and cutting uncomplicated layouts with industrial cutting equipment. A variety of basic industrial machines will be mastered along with the individual sewing operations used in mass-production and sample making while maintaining quality of production and observing health and safety procedures. Basic technique samples and garments will be constructed using appropriate industrial sewing equipment. One field trip is required.

FASHN 161 Advanced Industrial and Production Sewing 4 Units

Prerequisite: FASHN 160 with a grade of "C" or better
Advisory: FASHN 320, 351, and 372 with grades of "C" or better
Hours: 36 hours LEC; 108 hours LAB
This course provides training in making more complex markers, laying up multiple layers of materials, and cutting complicated lays outs with industrial cutting equipment. A variety of advanced industrial machines will be mastered and applied to garments involving complex construction operations. Handling more difficult materials, component parts and finishing garments while maintaining quality of production and observing health and safety procedures will be included.

FASHN 182 Making Your Own Dress Form 3 Units

Prerequisite: FASHN 150 with a grade of "C" or better.
Hours: 36 hours LEC; 54 hours LAB
This is an innovative course in the construction of a personalized dress or full body form that 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 their form in various ways. This course may be taken two times for credit providing there is no duplication of topics.

FASHN 183 French Draping 3 Units

Prerequisite: FASHN 150 with a grade of "C" or better.
Advisory: FASHN 372 with a grade of "C" or better.
Hours: 36 hours LEC; 54 hours LAB
This is an advanced creative course designed to give the student variation in dressmaking design through the media of fabric manipulation (or draping) on a personal custom dress or full body form or full scale or half-scale dress or full body form. Students will drape several garments in muslin and one final garment in fashion fabric. This course may be taken two times for credit providing there is no duplication of topics.

FASHN 198 Sewing as a Business 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320 or ESL 114; and LIBR 318; and MATH 34 with grades of "C" or better.
Hours: 54 hours LEC
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 295 Independent Studies in Fashion 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

FASHN 299 Experimental Offering in Fashion .5-4 Units

Prerequisite: None
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

FASHN 310 Fashion Analysis/Clothing Selection 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320 or ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
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, and 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, and care and maintenance of family clothing are included.

FASHN 320 Textiles 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320 or ESL 114; and LIBR 318 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This is a consumer-oriented introduction to textiles that includes study of the characteristics of fibers, yarns, and fabric construction including weaves and fabric finishes. Information will be presented related to consumer satisfaction in selecting and caring for fabrics, apparel, furnishing, and other textile products in daily use. One optional field trip will be taken.

FASHN 330 History of Western World Fashion 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320 or ESL 114; and LIBR 318 with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2
Course Transferable to CSU
Hours: 54 hours LEC
Students will study dress in Western civilization from ancient times through the present. An interdisciplinary approach is used to examine how clothing communicates values displayed by the individual and functions as a reflection of trends in technology, political events, social ideals, and cultural developments such as art and music. Emphasis will be placed on differing roles in the production, dissemination, and consumption of clothing in relation to socioeconomic groups. One field trip is required.

FASHN 335 Historic Costuming 3 Units

Same As: TA 436
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320; or ESL 114; FASHN 140 and FASHN 150 and LIBR 318 and MATH 34 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
The impact of social, political, cultural, and economic issues on costume is explored from the cradle of civilization through modern times. Specific periods of fashion are researched to design and construct historically correct garments. Students will learn how to apply the principles of modern pattern making to various historical styles and use this knowledge to design and create historical costumes. The unique cut and construction of each historical period is covered, from undergarments to accessories for each fashion period. Students will learn to create necessary adaptations to these garments for successful stage applications. One field trip is required. This course may be taken four times providing there is no duplication of topics.

FASHN 351 Principles of Apparel Construction/Intermediate Sewing 3 Units

Prerequisite: FASHN 150 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course presents intermediate apparel construction techniques, such as working with more complex pattern adjustments, patterns, notions, and fabrics. Comprehensive custom sewing techniques for men, women, and children will be applied to four student-made garments. The course may be taken two times for credit providing there is no duplication of topics.

FASHN 352 Advanced Apparel Construction/Couture Sewing 3 Units

Prerequisite: FASHN 351 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 two times for credit providing there is no duplication of topics.

FASHN 355 Traditional Tailoring 3 Units

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 or women's suits and coats. This course may be taken two times for credit providing there is no duplication of topics.

FASHN 356 Contemporary Tailoring 3 Units

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 suitable for these methods, and construction techniques of machine or fusible contemporary tailoring for faster construction of men's and women's suits and coats. One optional field trip will be taken. This course may be taken two times for credit providing there is no duplication of topics.

FASHN 360 Clothing Alterations 3 Units

Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
Advisory: FASHN 351 with grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 complete alterations necessary for women's, men's, and children's ready-to-wear garments. Two field trips are required. The course may be taken two times for credit providing there is no duplication of topics.

FASHN 370 Pattern Adjustment and Fit 3 Units

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is a study of how to make patterns fit, take body and pattern measurements, and their relationship to a variety of body fitting differences. Extensive pattern adjustment techniques will be demonstrated, practiced, and applied to a "basic" dress pattern, which will become a sloper for flat pattern design. Garment fitting techniques and refinements will be done through garment alterations on a fitting "muslin" of the "basic" dress. The course may be taken two times for credit providing there is no duplication of topics.

FASHN 372 Pattern Making and Design 3 Units

Prerequisite: FASHN 351 with a grade of "C" or better, or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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. The course may be taken two times for credit providing there is no duplication of topics.

FASHN 376 Advanced Design - Drafting, Advanced Flat Pattern Techniques and Computer Aided Design 3 Units

Prerequisite: FASHN 372 with a grade of "C" or better
Advisory: CISC 300 with grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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, marker making, and plotting pattern pieces. The course may be taken two times for credit providing there is no duplication of topics.

FASHN 495 Independent Studies in Fashion 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Independent Studies

FASHN 499 Experimental Offering in Fashion .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Interior Design (IDES)

IDES 300 Fundamentals of Interior Design 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW320 or ESL 114; and LIBR 318; and MATH 34 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This introductory survey course addresses various aspects of the interior design industry and profession. It includes the study and application of design principles and elements; influences of historical, cultural and functional design factors; the selection and arrangement of interior furnishings and materials; and an overview of career options in interior design.

IDES 322 Materials of Interior Design 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW320 or ESL 114; and IDES 300; and LIBR 318; and MATH 34 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
The focus of this course covers the materials used in interior design, their characteristics, sources, and applications. Students will study the design process, technology in the industry, aesthetics, furnishings, specifications of interior finish materials, and current issues in the field. The professional role of the interior designer in relation to that of the client, contractor, and consultants also will be examined. One field trip is required.

IDES 402 Soft Furnishings Fabrication - Home Accessories 3 Units

Prerequisite: FASHN 150 with a grade of "C" or better
Advisory: FASHN 351, IDES 300, and IDES 322 with grades of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
Students will be introduced to skills needed for soft furnishing home accessory projects, such as table accessory, pillow, cushion, chair covering and bedding fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals in the interior design industry. One field trip is 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 320 and ESLW 320 or 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.
Course Transferable to CSU
Hours: 12 hours LEC; 18 hours LAB
Students will be introduced to skills needed for table accessory fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals in the interior design industry. One field trip is required to observe an interior design production facility. This course may be taken twice for credit providing there is no duplication of topics.

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 320 and ESLW 320 or 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.
Course Transferable to CSU
Hours: 12 hours LEC; 18 hours LAB
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 in the interior design industry. One field trip is required to observe an interior design production facility. This course may be taken twice for credit providing there is no duplication of topics.

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 320 and ESLW 320 or 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.
Course Transferable to CSU
Hours: 12 hours LEC; 18 hours LAB
Students will be introduced to skills needed for bedding fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals in the interior design industry. One field trip is required to observe an interior design production facility. This course may be taken twice for credit providing there is no duplication of topics.

IDES 403 Soft Furnishings Fabrication - Window Treatments 3 Units

Prerequisite: FASHN 150 with a grade of "C" or better
Advisory: FASHN 351, IDES 300, and IDES 322 with grades of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
Students will be introduced to skills needed for soft furnishings window treatment projects such as window shade, curtain, drapery, and window top treatment fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals in the interior design industry. One field trip is 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 320 and ESLW 320 or 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.
Course Transferable to CSU
Hours: 12 hours LEC; 18 hours LAB
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 in the interior design industry. One field trip is required to observe an interior design production facility. This course may be taken twice for credit providing there is no duplication of topics.

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 320 and ESLW 320 or 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.
Course Transferable to CSU
Hours: 12 hours LEC; 18 hours LAB
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 in the interior design industry. One field trip is required to observe an interior design production facility. This course may be taken twice for credit providing there is no duplication of topics.

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 320 and ESLW 320 or 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.
Course Transferable to CSU
Hours: 12 hours LEC; 18 hours LAB
Students will be introduced to skills needed for window top treatment fabrication. Students will create projects using the specialized tools, fabrics, and techniques used by professionals in the interior design industry. One field trip is required to observe an interior design production facility. This course may be taken twice for credit providing there is no duplication of topics.

IDES 495 Independent Studies in Interior Design 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Independent Studies

IDES 499 Experimental Offering in Interior Design .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

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

Program Information
This is an interdisciplinary program designed to provide a broad exposure to the arts. This program includes course in art, art history, the humanities, music, photography, and theatre arts. While a baccalaureate degree or higher degree is recommended for those seeking professional careers related to these fields, earning the Associate degree would demonstrate a commitment to the major.

Career Opportunities
Career opportunities in fine arts incorporate a variety of professional paths that address the creative process in education, business, or nonprofit organizations. These might include but are not limited to: galleries or museums, music industry, public arts instruction, and theatre management.

Upon completion of this program, the student will be able to:
- demonstrate an ability to express her/himself through one or more of the various fine arts represented in this program.
- recognize and identify major works in the fine arts represented by one or more of the various subjects in this program.
- demonstrate an understanding of the meanings and uses of one or more of the various fine arts represented in this program.
- demonstrate an understanding of the pluralism in the fine arts throughout history and in the contemporary world.

Required Program

A minimum of 24 units from the following: 24
Students must take courses from at least FIVE of the nine areas listed:

1. Art (ART)
2. Art History (ARTH)
3. Humanities (HUM)
4. Music Fundamentals, History & Literature (MUFHL)
5. Music Instrumental/Voice Instruction (MUIVI)
6. Music Performance (MUP)
7. Music Specializations in Music (MUSM)
8. Photography (PHOTO)
9. Theatre Arts (TA)

Total Units Required **24**

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.

Foreign Languages

Arabic - ARABIC
Chinese - Cantonese-CANT/Mandarin-MAND
Farsi - FARSI
French - FREN
German – GERM
Greek - GREEK
Italian - ITAL
Japanese - JAPAN
Korean - KOREAN
Punjabi - PNJABI
Russian - RUSS
Spanish - SPAN
Tagalog - TGLG
Vietnamese - VIET

Division of Humanities and Fine Arts

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Auditorium 19a

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Arabic (ARABIC)

ARABIC 401 Elementary Arabic 5 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 90 hours LEC
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 I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 90 hours LEC
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.

Cantonese (CANT)

CANT 401 Elementary Cantonese 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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. The course also provides an introduction to the culture of Cantonese speaking regions of the world.

CANT 402 Elementary Cantonese 4 Units

Prerequisite: CANT 401 with a grade of "C" or better; or two years of high school Cantonese with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: CANT 402 with a grade of "C" or better; or three years of high school Cantonese with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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 readings about Chinese society will be studied to provide a deeper understanding of Cantonese speaking cultures.

CANT 412 Intermediate Cantonese 4 Units

Prerequisite: CANT 411 with a grade of "C" or better; or four years of high school Cantonese with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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.

CANT 495 Independent Studies in Cantonese 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

CANT 499 Experimental Offering in Cantonese .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Mandarin (MAND)

MAND 101 Conversational Mandarin, Elementary 3 Units

Prerequisite: None
General Education: AA/AS Area I
Hours: 54 hours LEC
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

Prerequisite: MAND 101 with a grade of "C" or better
General Education: AA/AS Area I
Hours: 54 hours LEC
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 299 Experimental Offering in Mandarin .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

MAND 401 Elementary Mandarin 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: MAND 401 with a grade of "C" or better; or two years of high school Mandarin.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is the continuation of MAND 401. Further acquisition of language skills in listening, speaking, reading, and writing will be emphasized. Additional character reading and writing skills will be developed. Students will gain proficiency in understanding and speaking Mandarin in everyday situations. Students will also gain a better understanding of Chinese culture through the study of its language.

MAND 405 Chinese Characters 1 Unit

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC
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.

MAND 411 Intermediate Mandarin 4 Units

Prerequisite: MAND 402 with a grade of "C" or better; or three years of high school Mandarin.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: MAND 411 with a grade of "C" or better; or four years of high school Mandarin.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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.

MAND 495 Independent Studies in Mandarin 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

MAND 499 Experimental Offering in Mandarin .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Farsi (FARSI)

FARSI 401 Elementary Farsi 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This beginning course is an introduction to 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

Prerequisite: FARSI 401 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This is a second semester course in 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 Persian speaking cultures.

FARSI 499 Experimental Offering in Farsi .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Experimental Offerings

French (FREN)

FREN 101 Conversational French, Elementary 3 Units

Prerequisite: None
General Education: AA/AS Area I
Hours: 54 hours LEC
This is a first semester introduction to the French language. It is designed for beginning students with little or no previous exposure to the language. It is characterized by an emerging ability to understand and produce appropriate responses in high-frequency situations utilizing learned materials. Speaking and writing will be comprehensible to a sympathetic listener. Verbal and written expression is limited to short, culturally appropriate communication. Students will acquire a knowledge of the geography, culture, and people of regions where French is spoken and of French-speakers' contributions to North American and world cultures.

FREN 102 Conversational French, Elementary 3 Units

Prerequisite: FREN 101 with a grade of "C" or better
Hours: 54 hours LEC
This is second semester of Elementary French Conversation. It provides refinement of skills begun in the first semester course. Students will gain increased accuracy and ability to understand and produce appropriate responses in high frequency situations utilizing learned materials. Speaking and writing will be comprehensible to a sympathetic listener. Verbal and written expression will be limited to short, culturally appropriate communication on a broader scale than at the first semester level. Students will acquire a knowledge of the geography, culture, and people of regions where French is spoken and of French-speakers' contributions to North American and world cultures. This course is conducted primarily in French.

FREN 111 Conversational French, Intermediate 3 Units

Prerequisite: FREN 102 with a grade of "C" or better; or 3 years of high school French
Hours: 54 hours LEC
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, with emphasis on the French cultural settings.

FREN 112 Conversational French, Intermediate 3 Units

Prerequisite: FREN 111 with a grade of "C" or better; or 4 years of high school French
Hours: 54 hours LEC
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 verb and tense mastery and on the expansion of vocabulary, as well as further mastery of useful cultural idioms and language patterns. This course is conducted exclusively in French.

FREN 299 Experimental Offering in French .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

FREN 401 Elementary French 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This class offers the basic language skills with special emphasis on listening, comprehension, and speaking. Aspects of French culture will be integrated throughout the course. It provides thorough training in the fundamentals of structure so that the student learns 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

Prerequisite: FREN 401 with a grade of "C" or better or two years high school French
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
In this class there will be further development of the skills outlined in FREN 401, with emphasis on authentic French dialogues. Coursework includes 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

Prerequisite: FREN 402 with a grade of "C" or better or three years of high school French.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
As a continuation of FREN 402, this course provides further development of vocabulary and grammatical concepts to enhance reading, writing, and speaking skills in French. In addition to grammar exercises, cultural commentaries, poems and literary excerpts are read and discussed in class. This course will be taught entirely in French.

FREN 412 Intermediate French 4 Units

Prerequisite: FREN 411 with a grade of "C" or better; or four years of high school French
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
As a continuation of French 411, this course provides further development of reading, writing, and speaking skills. Frequent short essays and one long essay will be required. Students are expected to be able to read French texts of increasing difficulty and express themselves orally and in writing at the intermediate level.

FREN 495 Independent Studies in French 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

FREN 499 Experimental Offering in French .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

German (GERM)

GERM 299 Experimental Offering in German .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
See Experimental Offerings

GERM 401 Elementary German 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: GERM 401 with a grade of "C" or better; or two years of high school German with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is a further development of the four basic skills: listening, speaking, reading, and writing. It is a continued study of pronunciation, fundamentals of German grammar, and German culture.

GERM 411 Intermediate German 4 Units

Prerequisite: GERM 402 with a grade of "C" or better; or three years of high school German with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: GERM 411 with a grade of "C" or better; or four years of high school German.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is a continuation of GERM 411 with further development of reading and writing skills in the German language. Literature will be analyzed and discussed to provide a deeper understanding of both the German language and culture.

GERM 495 Independent Studies in German 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

GERM 499 Experimental Offering in German .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offerings

Greek (GREEK)

GREEK 401 Elementary Modern Standard Greek 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2
Course Transferable to CSU
Hours: 72 hours LEC
This beginning course in Modern Standard Greek will be conducted almost entirely in Greek. It will emphasize the development of language skills in listening, reading, speaking, and writing by focusing on the application of simple, grammatical concepts. These language skills will be embedded within a cultural context which introduces students to key elements of Greek culture.

GREEK 402 Elementary Modern Standard Greek 4 Units

Prerequisite: GREEK 401 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2
Course Transferable to CSU
Hours: 72 hours LEC
The four skills—understanding, speaking, reading, and writing–are further developed in this course. The course covers the following grammatical concepts: direct and indirect object pronouns, double object pronouns, introduction and practice of all regular verbs ending in omega and mu-alpha-iota the preterit tense, the reflexive, the affirmative informal command, the uses of the verbs ksero (to know) and sinato (to meet), the prepositions yia and yiati and a review of the verbs eimai and eho. These language skills will be embedded within a cultural context which continues and expands students' knowledge of key elements of Greek culture. Vocabulary, grammar and communication skills are built through the exploration of cultural areas such as the home, vacations, jobs, childhood, youth, expressing emotions, foods, markets, and restaurants.

Italian (ITAL)

ITAL 401 Elementary Italian 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course introduces basic essentials of elementary grammar, sentence structure, and conversation. It also introduces Italian character, tradition, and culture. Reading of simple prose will be included.

ITAL 402 Elementary Italian 4 Units

Prerequisite: ITAL 401 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is a continuation of ITAL 401. It includes additional grammar essentials, further practice in conversation and composition, and a continued study of Italian culture.

Japanese (JAPAN)

JAPAN 101 Conversational Japanese, Elementary 3 Units

Prerequisite: None
General Education: AA/AS Area I
Hours: 54 hours LEC
JAPAN 101 covers 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.

JAPAN 299 Experimental Offering in Japanese .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

JAPAN 401 Elementary Japanese 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
JAPAN 401 covers 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

Prerequisite: JAPAN 401 with a grade of "C" or better; or two years of high school Japanese with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: JAPAN 402 with a grade of "C" or better; or three years of high school Japanese with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: JAPAN 411 with a grade of "C" or better; or four years of high school Japanese with grades of "C" or better.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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.

JAPAN 495 Independent Studies in Japanese 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

JAPAN 499 Experimental Offering in Japanese .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Korean (KOREAN)

KOREAN 401 Elementary Korean 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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 I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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.

Punjabi (PNJABI)

PNJABI 401 Elementary Punjabi 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course introduces basic essentials of elementary grammar, sentence structure, and conversation. The course also introduces Punjabi history, traditions, and culture. Reading of simple prose will be included.

PNJABI 402 Elementary Punjabi 4 Units

Prerequisite: PNJABI 401 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is a continuation of PNJABI 401. It includes additional grammar essentials, further practice in conversation and composition, and a continued study of Punjabi culture.

PNJABI 499 Experimental Offering in Punjabi .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
This is an experimental course offering designed to provide students with courses not normally offered by the Foreign Language Department. Course topics will be structured around new and emerging issues related to the field of Foreign Languages.

Russian (RUSS)

RUSS 401 Elementary Russian 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: RUSS 401 with a grade of "C" or better; or two years of high school Russian with grades of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is a continuation of reading, writing, and conversation. The course extends the study of noun declensions and adds adjective declensions. The study of verb conjugations is also continued. The course further explores the Russian people and their culture, including comparisons with the U.S.

RUSS 411 Intermediate Russian 4 Units

Prerequisite: RUSS 402 with a grade of "C" or better; or three years of high school Russian.
General Education: AA/AS Area I; CSU Area C2
Course Transferable to CSU
Hours: 72 hours LEC
The course provides intermediate level skills in listening to and speaking Russian. The course further develops competence in the grammatical structures of the language. Students will further develop their knowledge of the history and culture of Russia as reflected in the language.

RUSS 412 Intermediate Russian 4 Units

Prerequisite: RUSS 411 with a grade of "C" or better; or four years of high school Russian.
Course Transferable to CSU
General Education: AA/AS Area I; CSU Area C2
Hours: 72 hours LEC
This course is a continuation of RUSS 411. Students develop increased comprehension of spoken and written Russian through reading, interpreting and discussing major types of Russian literature (short story, novel, drama, poetry). Students will also develop an increased knowledge of the history and culture of Russia as reflected in the language.

RUSS 495 Independent Studies in Russian 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Independent Studies

RUSS 499 Experimental Offering in Russian .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
RUSS 499 teaches elementary phrases, idiomatic expressions, and vocabulary. The emphasis in the course is helping students develop a basic conversational ability in the language, with an emphasis on speaking and listening.

Spanish (SPAN)

SPAN 101 Conversational Spanish, Elementary 3 Units

Prerequisite: None
Hours: 54 hours LEC
This introductory course provides students with elementary skills for understanding and speaking Spanish. Common expressions needed to communicate in everyday living will be stressed, and emphasis will be on conversation. This course is characterized by an emerging ability to understand and produce appropriate responses in high frequency situations utilizing learned materials. Students will be introduced to various cultural aspects of different Spanish speaking countries. This course may be taken once for credit.

SPAN 102 Conversational Spanish, Elementary 3 Units

Prerequisite: SPAN 101 with a grade of "C" or better
Hours: 54 hours LEC
This second semester course will continue to provide students with elementary skills for understanding and speaking Spanish. Common expressions needed to communicate in everyday living will be emphasized. 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 taken once for credit.

SPAN 111 Conversational Spanish, Intermediate 3 Units

Prerequisite: SPAN 102 with a grade of "C" or better
Hours: 54 hours LEC
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. Emphasis will be on fostering oral proficiency and further development of Hispanic cultural awareness.

SPAN 112 Conversational Spanish, Intermediate 3 Units

Prerequisite: SPAN 111 with a grade of "C" or better
Hours: 54 hours LEC
The emphasis of this course is primarily on developing the speaking ability of the students and their self-expression in brief, practical discussions. The concentration of this course is on verb-tense mastery, vocabulary, and idioms. Students will also learned about life and culture in Spanish speaking countries. This course may taken one time for credit.

SPAN 299 Experimental Offering in Spanish .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

SPAN 401 Elementary Spanish 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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. Catalog description was recently modified to include hybrid and long-distance teaching modalities.

SPAN 402 Elementary Spanish 4 Units

Prerequisite: SPAN 401 with a grade of "C" or better; or two years of high school Spanish.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
The four skills–understanding, speaking, reading, and writing–are further developed in this course. The course covers the following grammatical concepts: direct and indirect object pronouns, double object pronouns, the preterit tense, the reflexive, the affirmative informal command, the uses of the verbs saber and conocer and the prepositions por and para, and a review of the verbs ser and estar. The students prepare short oral talks in most of the above. Also, they write short paragraphs in most of the above in class and outside of class. Vocabulary is built through the exploration of cultural areas such as the home, vacations, jobs, childhood, youth, expressing emotions, foods, markets, and restaurants. The emphasis is on speaking and oral comprehension.

SPAN 411 Intermediate Spanish 4 Units

Prerequisite: SPAN 402 with a grade of "C" or better; or three years of high school Spanish.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is the continuation of SPAN 402, conducted entirely in Spanish. It provides further development of the listening, speaking, reading, and writing skills. The grammatical focus is on the study and application of past tenses and the subjunctive mood. Students will be expected to engage in meaningful communicative situations. Students will increase their knowledge of the culture and traditions of the Spanish speaking world.

SPAN 412 Intermediate Spanish 4 Units

Prerequisite: SPAN 411 with a grade of "C" or better; or four years of high school Spanish.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This second semester of Intermediate Spanish is designed to help students to further develop skills acquired in SPAN 411. Readings in the original of the various literary genres (the short story, poetry, drama, the essay), by Hispanic authors, provide topics for discussion as well as venues in which to practice grammatical concepts and to develop vocabulary. Literary analysis is used as a tool for oral and written practice on grammatical points needed by the students. Students will develop increased cultural awareness and will continue to acquire knowledge of geography, culture, history, customs, traditions, and Spanish-speakers' contributions to the world community. The class is conducted exclusively in Spanish. Students will be able to to handle complicated conversations using past and future time frames. The emphasis is on composition and conversation.

SPAN 413 Spanish for Native Speakers I 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2
Course Transferable to CSU
Hours: 72 hours LEC
This course offers the fundamentals of spoken and written Spanish for the native speaker of Spanish. It covers the structure of the language, oral communication, and fundamentals of grammar and composition. Focus is placed primarily on the indicative tenses. The course also covers diacritical marks, such as the accent mark, and their uses. In addition, the course introduces the student to the geography and culture of the Spanish speaking world. This course is conducted in Spanish.

SPAN 415 Spanish for Native Speakers II 4 Units

Prerequisite: SPAN 413 with a grade of "C" or better
General Education: AA/AS Area I (effective Summer 2009)
Course Transferable to CSU
Hours: 72 hours LEC
This course is a continuation of SPAN 413. It offers the fundamentals of spoken and written Spanish for the native speaker of Spanish. It covers the structure of the language, oral communication, and fundamentals of grammar and composition. Focus is placed primarily on the conditional and subjunctive forms, the future tense, and the compound tenses. The course also covers diacritical marks, such as the accent mark, and their uses. In addition, the course introduces the student to the geography and culture of the Spanish speaking world. This course is conducted in Spanish.

SPAN 425 Advanced Reading and Conversation 3 Units

Prerequisite: SPAN 412 with a grade of "C" or better
General Education: Area I; CSU Area C2
Course Transferable to CSU
Hours: 54 hours LEC
Advanced reading and conversation in Spanish with an emphasis on developing critical thinking skills and academic writing proficiency through a functional grammar approach. Readings and activities provide the appropriate vocabulary, linguistic structures, and writing strategies to allow for building on vocabulary, grammar review, and meaningful dialogue.

SPAN 427 Introduction to Spanish American Literature 3 Units

Prerequisite: SPAN 412 with a grade of "C" or better, or the equivalent.
General Education: Area I; CSU Area C2
Course Transferable to CSU
Hours: 54 hours LEC
This course introduces students to Latin American Literature and explores the relationship between Latin American literary movements/trends and historical periods. Different types of genre will be analyzed. Text selections will be read in their original Spanish language. Class presentations and discussions will be in Spanish, as well.

SPAN 428 Contrastive Grammar of English-Spanish 3 Units

Prerequisite: SPAN 412 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course presents the essential elements of Spanish grammar side by side with its grammatical equivalent in English. It allows native Spanish-speakers and advanced Spanish learners to compare and contrast the grammars of both languages at a glance. It focuses upon the development of analytical abilities by presenting the interlingual differences between Spanish and English in a simple and direct way. Students will be provided with numerous exercises, through which the nature of such differences can be readily perceived and acted upon.

SPAN 434 Spanish for the Professions – Intermediate 3 Units

Prerequisite: SPAN 01 or 402 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This is an intermediate course designed for persons in law enforcement, business and finance, social services and the medical professions. The emphasis of the course is on acquiring verbal facility in interviewing, collecting data, giving instructions, and general courtesies. The course will help students acquire language proficiency while reviewing and broadening the grammar foundation attained in elementary Spanish. It will introduce specific vocabulary necessary for professionals to communicate successfully in a professional situation. The issue of cultural and behavioral attitudes appropriate for relating to persons of Hispanic heritage will be discussed.

SPAN 495 Independent Studies in Spanish 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

SPAN 499 Experimental Offering in Spanish .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offering

Tagalog (TGLG)

TGLG 401 Elementary Tagalog 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: TGLC 401 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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.

TGLG 499 Experimental Offering in Tagalog .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Vietnamese (VIET)

VIET 401 Elementary Vietnamese 4 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: VIET 401 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course will provide continued refinement of the Novice Low Level skills begun in VIET 401 while working toward the Novice Mid and High Levels. The student will gain increased accuracy; 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 names of family members; and improve 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 VIET 401 level. 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 495 Independent Studies in Vietnamese 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

VIET 499 Experimental Offering in Vietnamese .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

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

Prerequisite: None
Advisory: MATH 34 with a grade of "C" or better, ENGRD 310 and ENGWR 100, or ESLR 320 and ESLW 310, with grades of "C" or better.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Optional field trips may be included.

GEOG 301 Physical Geography Laboratory 1 Unit

Prerequisite: None
Corequisite: GEOG 300
General Education: AA/AS Area IV; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course will provide laboratory study and field observation of selected geographic phenomena including: map interpretations and GIS applications, weather and climate, rocks and landforms, soils, flora, and fauna. Emphasis will be on applying scientific methods and techniques, using scientific instruments, working with maps, and interpreting spatial phenomena. Optional field trips may be included.

GEOG 306 Weather and Climate 3 Units

Prerequisite: None
Advisory: MATH 34 with a grade of "C" or better, ENGRD 310 and ENGWR 100, or ESLR 320 and ESLW 310, with grades of "C" or better.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 studied. 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: MATH 34 with a grade of "C" or better, ENGRD 310 and ENGWR 100, or ESLR 320 and ESLW 310, with grades of "C" or better.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

GEOG 310 Human Geography: Exploring Earth's Cultural Landscapes 3 Units

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100, or ESLR 320 and ESLW 310, with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D5; IGETC Area 4E
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course investigates the diverse patterns of human activity on earth when considering cultural and environmental factors. Major themes include human-environment interaction, globalization, spatial and cultural conflict, and cultural diversity. The following topical areas will be utilized to examine these dynamic concepts: population and migration, language, religion, ethnicity, political and economic systems, development issues, agriculture, urbanization, and resource issues.

GEOG 320 World Regional Geography 3 Units

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100, or ESLR 320 and ESLW 310, with grades of "C" or better.
General Education: AA/AS Area V(b); CSU Area D5; IGETC Area 4E
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, 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

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100, or ESLR 320 and ESLW 310, with grades of "C" or better.
General Education: AA/AS Area V(b); CSU Area D5; IGETC Area 4E
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course provides a study of California's physical and cultural environments. The interrelationships between California's geographic regions, landforms, vegetation, hydrological features, resources, history, population dynamics, diversity, and economic development will be examined. Contemporary issues relating to these overriding themes will also be considered.

GEOG 330 Introduction to Geographic Information Systems 3 Units

Prerequisite: None
Advisory: CISC 300 or equivalent with a grade of "C" or better.
General Education: AA/AS Area II(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 basic spatial and GIS concepts along with the tools and techniques used within GIS.

GEOG 332 Introduction to Desktop GIS 2 Units

Prerequisite: None
Advisory: CISC 300 or equivalent with a grade of "C" or better.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
Geographic Information Systems (GIS) are computer-based mapping programs that analyze spatial data. This course provides the foundation for using desktop GIS software. A conceptual overview along with hands-on experience will be used to explore basic GIS software functionality. Emphasis will be placed on display characteristics, attribute querying, and database exploration and management. This course is the first of a two-part series.

GEOG 333 Intermediate Desktop GIS 2 Units

Prerequisite: GEOG 332 with a grade of "C" or better
Advisory: CISC 300 or equivalent with a grade of "C" or better.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
Geographic Information Systems (GIS) are computer-based mapping programs that analyze spatial data. This course builds on the material covered in GEOG 332 by further exploring the capabilities and functionality of desktop GIS software. Emphasis will be placed on spatial analysis, data creation, and cartographic presentation.

GEOG 390 Field Studies in Geography .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 24 hours LEC; 144 hours LAB
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

Prerequisite: None
General Education: AA/AS Area V(b); CSU Area D5; IGETC Area 4E
Enrollment Limitation: Eligibility for the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. This course uses a seminar-model to explore the world's cultural regions.

GEOG 495 Independent Studies in Geography 1-3 Units

Prerequisite: None
Enrollment Limitation: Student must obtain approval from an instructor to conduct an independent study.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is for students who wish to develop an in-depth understanding in fundamental topics in Geography. Instructor approval is required to enroll in this course.

GEOG 499 Experimental Offering in Geography .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
This is an experimental course designed to provide students with courses not normally offered by the Geography Department. Course topics will be structured around emerging issues related to Geographic inquiry.

Geology GEOL

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

GEOL 302 Physical Geology 4 Units

Prerequisite: None
Advisory: MATH 100 with a grade of "C" or better and ENGRD 310 and ENGWR 300, or ESLR 340 and ESLW 340, with grades of "C" or better; or equivalent.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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. At least one field trip or an appropriate alternative activity will be required as an introduction to geological environments and field methods in geology.

GEOL 305 Earth Science 3 Units

Prerequisite: None
Corequisite: GEOL 306
Advisory: MATH 100 with a grade of "C" or better and ENGRD 310 and ENGWR 300, or ESLW 340 and ESLR 340, with grades "C" or better; or equivalent.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Corequisite: GEOL 305
Advisory: MATH 100 with a grade of "C" or better and ENGRD 310 and ENGWR 300, or ESLW 340 and ESLR 340, with grades "C" or better; or equivalent.
General Education: AA/AS Area IV; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LAB
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. At least one field trip or an appropriate alternative activity will be required as an introduction to geological environments and field methods in geology. Not available for credit to students who have completed GEOL 302.

GEOL 308 Introduction to Geology 3 Units

Prerequisite: None
Advisory: MATH 34 with a grade of C or better and ENGRD 110 and ENGWR 100, or ESLR 320 and ESLW 320, with grades of "C" or better; or equivalent.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

GEOL 310 Historical Geology 3 Units

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 300, or ESLR 340 and ESLW 340, and MATH 100, with grades of "C" or better; or placement through the assessment process.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course covers the origin and geologic history of the Earth and the evolution of its living organisms. Plate tectonic theory is used to explain changes in composition and structure of rocks of the Earth's crust from the formation of the Earth to the present. Emphasis is placed on the formation of sedimentary rocks and the fossils contained within them for the purpose of understanding how they record changes in Earth's environmental processes and ecosystems. Evolution and extinction are studied to understand how they reflect environmental changes in the Earth's ocean, atmosphere, and surface.

GEOL 311 Historical Geology Laboratory 1 Unit

Prerequisite: None
Corequisite: GEOL 310
Advisory: ENGRD 310 and ENGWR 300, or ESLR 340 and ESLW 340, and MATH 100, with grades of "C" or better; or placement through the assessment process.
General Education: AA/AS Area IV; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LAB
Laboratory studies will accompany and complement GEOL 310, Historical Geology. Use of sedimentary rocks, fossils, geologic maps, and cross sections will aid in interpreting ancient environments, tectonic settings, and geologic history. Other concepts addressed include age relations and correlation of rock and time units, and introduction to fossil identification and biostratigraphy. At least one field trip or an appropriate alternative activity will be required as an introduction to sedimentary environments and field methods in geology.

GEOL 345 Geology of California 3 Units

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 300, or ESLR 340 and ESLW 340, and MATH 100, with grades of "C" or better; or placement through the assessment process.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course provides a survey of the physical and historical aspects of California geology, emphasizing the linkage of geology and people through economic and social impacts. This course is recommended for non-majors and majors in geology and is of particular value to science, engineering, environmental studies, education, and economics majors. One field trip may be required.

GEOL 391 Field Studies in Geology 1-3 Units

Prerequisite: GEOL 302, 305, 308, or 310 with a grade of "C" or better; For course topic "Geology and Natural History of the Eel River, Northern California," students must demonstrate swimming and basic canoeing abilities. Students must be able to swim 50 yards and demonstrate they can enter and exit a canoe from beach and dock; paddle forward, turn, stop and reverse; right a capsized canoe; and perform an assisted entry from the water. Swim testing and canoe testing will be administered by the CSU Sacramento Aquatic Center at Lake Natoma or the Humboldt State University Center Activities Program at Humboldt Bay.
Course Transferable to CSU
Hours: 18 hours LEC; 108 hours LAB
This course involves required field trips to selected locations of geologic interest. Course content varies according to field trip destination but may include topics in physical geology, environmental geology, economic geology, natural history, and/or introduction to tools and techniques used for geosciences field research [e.g. map and compass, the Global Positioning System (GPS), Geographic Information Systems (GIS), etc.]. This course may be taken up to four times for a total of three (3) units under a new topic or destination. 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).

GEOL 495 Independent Studies in Geology 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
See Independent Studies

GEOL 499 Experimental Offering in Geology .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Gerontology GERON

Associate in Science Degree

Certificate of Achievement

Department of Family and Consumer Science

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Gerontology

Associate in Science Degree
Certificate of Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- demonstrate skill, ease, confidence, rapport, and listening skills when communicating with the elderly at different cognitive levels.
- evaluate and discuss similarities and differences surrounding diverse aging populations as they relate to life expectancy, mortality, mobility, family, work, retirement, mental health, death, lifestyles, sexuality, and use of services.
- discuss the impact of language and other cultural factors that influence drug education, drug use, and treatment options with the elderly.
- evaluate common methods of care for the dying including hospitals, skilled nursing facilities, and hospice care.
- recognize and identify risk of caregiver stress in cases of Alzheimer's and other dementia.
- identify and evaluate elder abuse causes, preventions strategies, and resources.
- identify strategies for meeting the challenges of aging within a sociocultural framework.
- recognize and evaluate demographic, socioeconomic, legal, and physiologic aspects of aging.
- develop practical workplace skills and knowledge needed for employment.
- transfer skills, units, and experience to a gerontology major at a four year institution.

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 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**

Suggested Electives
FCS 320, 326; PSYC 300, SOC 300, 301, 310, 341

Associate in Science (A.S.) Degree
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.

Certificate of Achievement
The Certificate of Achievement 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
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 V(b); AA/AS Area III(b); CSU Area D0; CSU Area E1; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: FCS 332 and PSYC 374
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100, or ESLR 340 and ESLW 340 and ESL 114, and FCS 324 or PSYC 370, and LIBR 318 with grades of "C" or better
General Education: AA/AS Area III(b); CSU Area D9; CSU Area E1; IGETC Area ; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
Students will explore the description and explanation of the evolution of adult behavior over the life span. Topics include theoretical as well as practical approaches to understanding aging in terms of physical, cognitive, and socio-emotional development such as: the study of the nature and changes of capabilities, skills, feelings, emotions, and social behavior with age, aging stereotypes, social bonds, environmental factors, sexuality, physical health, mental health, death and bereavement. (Credit for FCS 332 or PSYC 374 or GERON 302.)

GERON 330 Communicating with and Validating Older Adults 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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.
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
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.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 364 Medical World of Elderly: Pharmacology .5 Unit

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 366 Coping with Death and Related Bereavement .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 368 Mental Health and Aging .5 Unit

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass only.

GERON 370 Topics in Gerontology: Elder Abuse .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
This course is an overview of elder abuse, focusing on occurrence, prevention strategies, and resources. This course is graded Pass/No Pass only.

GERON 372 Alzheimer's Workshop .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 376 Aging and Family Dynamics .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 378 Body Mechanics and Safety .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 380 Nutrition and Aging .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 382 Stress Management: New Approaches .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass 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.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass only.

GERON 388 Interpersonal Relationships .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass only.

GERON 389 Treatment of the Geriatric Patient .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
This course explores the demographic, socioeconomic, and physiologic aspects of aging as they relate to the treatment of the elderly. Other issues will include institutionalized and home care, community resources, and health care systems. This course graded Pass/No Pass.

GERON 396 End-Stage Life Care .5 Unit
Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass only.

GERON 403 Legal Issues for the Elderly .5 Unit
Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 9 hours LEC
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 Pass/No Pass.

GERON 404 Sexuality and Aging .5 Unit
Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
Course Transferable to CSU
Hours: 9 hours LEC
This course examines basic sexual anatomy and physiology of men and women with emphasis on the changes that occur with aging. Sexuality, menopause, impotence, sexually transmitted diseases, and diverse lifestyles within the older population will be explored.

GERON 494 Topics in Gerontology .5-4 Unit
Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with a grade "C" or better.
Course Transferable to CSU
Hours: 72 hours LEC
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 Pass/No Pass and may be taken four times.

GERON 495 Independent Studies in Gerontology 1-3 Units
Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Independent Studies

GERON 498 Work Experience in Gerontology 1-4 Units
Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
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.

GERON 499 Experimental Offering in Gerontology .5-4 Units
Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Graphic Communication GCOM

Associate in Science Degree

Certificate of Achievement

Certificate of Completion

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Graphic Communication, Degree and Certificate of Achievement

Digital Illustration, Certificate of Completion, Level 1

Graphic Design Production, Certificate of Achievement

Image Editing, Certificate of Completion, Level 2

Page Layout, Certificate of Completion, Level 2

Prepress, Certificate of Completion, Level 2

Web Design Basics, Certificate of Achievement

Web Design, Certificate of Achievement

Program Information
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:

- 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.

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, 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, 3D visualization and modeling, special effects houses, video game industry, the motion picture industry, and independent filmmaking.

Graphic Communication
Associate in Science Degree
Certificate of Achievement

Recommended High School Preparation
Courses in art, computer skills, photography, journalism, and English.

Contact department faculty at 916-558-2415.

Upon completion of this program, the student will be able to:
- plan, design, and execute a multi-paged/multifaceted project (printed, designed for Web, or animated).
- examine design problems presented by a client, formulate a visual solution, and present the solution to the client.
- prepare a project for either professional or digital printing, the Web, or onscreen viewing.
- determine the appropriate tool to solve a graphic need.
- apply appropriate type, color, layout design, and imagery to a visual project.
- communicate with the needed industry vocabulary in the design industries.

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 104 Real World Scanning (1.5)	
GCOM 105 Photoshop Special Features (1.5)	
GCOM 280 Experimental Offering in Graphic Communication, Design Related (.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 Print and Multimedia Publication Design (3)	
GCOM 330 Beginning Photoshop (3)	
GCOM 331 Advanced Image Editing for Print, Using Adobe Photoshop (3)	
GCOM 332 Advanced Image Editing for Web/Multimedia, 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 347 Typography: Principles and Creation (3)	
GCOM 349 Portfolio (1.5)	
GCOM 350 Skills and Resources for Graphic Professionals (3)	
GCOM 360 Web Site Prototyping and Graphics (Adobe Fireworks) (3)	
GCOM 361 Creative Web Design (3)	
GCOM 362 Intermediate Creative Web Design (Advanced Dreamweaver) (3)	
GCOM 363 Advanced Creative Web Design (Adobe Flash) (3)	
GCOM 370 Web Projects (3) or CISW 470 Web Projects (3)	
GCOM 383 Interactive and Motion Design Using Macromedia Flash (3)	
GCOM 390 Introduction to Motion Design Using After Effects (3)	
GCOM 400 Introduction to the Principles of Animation (3)	
GCOM 401 Introduction to Computer Animation (3)	
GCOM 402 Beginning 3D Modeling and Rigging (3)	
GCOM 410 Advanced 3D Animation - Character Animation Production (3)	
GCOM 420 Video Game Design (3)	
GCOM 424 Video Game Art (3)	
GCOM 426 Video Game Level Design (3)	
GCOM 490 Graphic Communication Studio (0.5 - 4)	
GCOM 498 Work Experience in Graphic Communication (1 - 4)	
Total Units Required	**21**

Associate in Science (A.S.) Degree
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.

Certificate of Achievement
The Certificate of Achievement 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

Program Information
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.

Upon completion of this program, the student will be able to:
- develop an art style for digital illustration.
- prepare files for professional offset printing or digital printing at standard and large sizes.
- solve visual problems, using images, type, and color.
- operate Adobe Illustrator software at a proficient level.
- plan, design, and execute a multipage design project.
- create web graphics.

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 Achievement

Program Information
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.

Upon completion of this program, the student will be able to:
- evaluate, plan, design, execute, and present a visual solution for a client.
- determine the appropriate tool to solve a graphic need.
- plan, design, and execute a multi-paged/multifaceted project for a printed medium.
- prepare a project for professional or digital printing.
- apply appropriate type, color, layout design, and imagery to a visual project.
- communicate with the needed industry vocabulary in the graphic arts industries.

Required Courses	Units
GCOM 310 Beginning Page Layout, Using Adobe PageMaker (3)	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)	
GCOM 330 Beginning Photoshop (3)	3
or GCOM 331 Advanced Image Editing for Print, Using Adobe Photoshop (3)	
GCOM 340 Beginning Adobe Illustrator (3)	3
or GCOM 341 Advanced Digital Illustration, Using Adobe Illustrator (3)	
GCOM 343 Graphic Design Production (3)	3
GCOM 345 Advanced Graphic Design Production	3
GCOM 349 Portfolio	1.5
Total Units Required	**16.5**

Certificate of Completion
The Certificate of Achievement may be obtained by completion of the required courses with grades of "C" or better or equivalent.

Image Editing
Certificate of Completion, Level 2

Program Information
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.

Upon completion of this program, the student will be able to:
- plan, design, and execute a digital design.
- manage and control color in a digital image.
- apply appropriate type, color, layout design, and imagery to a visual project.
- prepare an image for either professional or digital printing or the Web.
- communicate with the needed industry vocabulary in the digital imagery industries.

Required Courses	Units
GCOM 330 Beginning Photoshop	3
GCOM 331 Advanced Image Editing for Print, Using Adobe Photoshop	3
GCOM 332 Advanced Image Editing for Web/Multimedia, Using Adobe Photoshop (3)	1.5-3
or GCOM 105 Photoshop Special Features (1.5)	
or CGOM 104 Real World Scanning (1.5)	
Total Units Required	**7.5-9**

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

Page Layout
Certificate of Completion, Level 2

Program Information
The Page Layout Certificate requires 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.

Upon completion of this program, the student will be able to:
- plan, design, and execute a multi-paged/multifaceted project.
- examine design problems presented by a client and formulate a visual solution.
- prepare a project for either professional or digital printing.
- apply appropriate type, color, layout design, and imagery to a visual project.
- communicate with the needed industry vocabulary in the graphic arts industry (printed medium).

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 Print and Multimedia Publication 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

Program Information
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.

Upon completion of this program, the student will be able to:
- prepare a project for either professional or digital printing.
- apply appropriate type, color, layout design, and imagery to a visual project.
- communicate with the needed industry vocabulary in the graphic arts industry (printed medium).
- apply the needed software techniques to pre-flight a project for digital or offset printing.

Required Courses	Units
GCOM 310 Beginning Page Layout, Using Adobe PageMaker (3)	3
or GCOM 313 Beginning Page Layout, Using Adobe InDesign (3)	
or GCOM 316 Beginning Page Layout, Using Quark XPress (3)	
GCOM 330 Beginning Photoshop	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.

Web Design Basics
Certificate of Achievement

Program Information
Web Design involves the visual design of Web graphics and the Web site experience. The Web Design Certificate requires learning visual design principles for Web technology, industry standard software, basic Web page construction, interactivity, and Flash animation and scripting. This certificate will prepare students for an internship or entry-level position working in a Web design-related field.

Career Opportunities
Career Opportunities include employment at Web design studios, graphic design studios, and self-employment.

Upon completion of this program, the student will be able to:
- plan, visually design, and execute a multi-paged Web site.
- examine design problems presented by a client, formulate a visual solution, and present the solution to the client.
- properly prepare graphic and html files for efficient uploading and viewing on the Web.
- apply appropriate type, color, layout design, and imagery to a Web site.
- communicate with the needed industry vocabulary in the Web Design/Development industries.

Required Courses	Units
GCOM 360 Web Site Prototyping and Graphics (Adobe Fireworks)	3
GCOM 361 Creative Web Design	3
GCOM 362 Intermediate Creative Web Design (Advanced Dreamweaver)	3
GCOM 363 Advanced Creative Web Design (Adobe Flash)	3
GCOM 383 Interactive and Motion Design Using Macromedia Flash	3
Total Units Required	**15**

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

Web Design
Certificate of Achievement

Program Information
Web Design involves the visual design of Web graphics and the visual design of a Web site experience. The Web Design Certificate requires learning graphic and visual design principles for Web application, industry standard software, and Web page construction and design, and animation and interactivity for Web sites. This certificate should prepare students for an entry-level position working in a Web design-related field.

Career Opportunities
Career Opportunities include Web design studios, self-employment, and graphic design studios.

Upon completion of this program, the student will be able to:
- create a visual solution and interface for a multi-paged Web site.
- utilize industry vocabulary for effective communication with clients and other Web professionals.
- evaluate the needs of a client, plan and execute a site that meets those needs.
- design graphics and navigation that create a Web site experience for a target audience.
- properly prepare graphic and html files for efficient uploading and viewing on the Web.
- apply appropriate type, color, layout design, and imagery to a Web site.
- demonstrate and analyze graphic design principles and how to modify them to satisfy the technical limitations on the Web.

Required Program	Units
GCOM 101 Introduction to the Macintosh (1.5)	1-1.5
or CISC 320 Operating Systems (1)	
or CISC 323 Linux Operating System (1)	
CISC 305 Introduction to the Internet	1
GCOM 330 Beginning Photoshop	3
GCOM 331 Advanced Image Editing, Using Adobe Photoshop (3)	1.5-3
or GCOM 105 Photoshop Special Features (1.5)	
GCOM 340 Beginning Adobe Illustrator	3
GCOM 360 Graphics for the Web	3
CISW 320 Introduction to Web Site Development	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)	3
or GCOM 383 Interactive and Motion Design Using Macromedia Flash (3)	
or CISW 405 ActionScript for Flash (3)	
GCOM 370 Web Projects	**3**
Total Required Units	**27.5 - 29.5**

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

Graphic Communication (GCOM)

GCOM 101 Introduction to the Macintosh 1.5 Units

Prerequisite: None
Hours: 18 hours LEC; 27 hours LAB
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; installing the most current system software; general operating techniques which include system software tips and proper startup and shutdown procedures; and troubleshooting procedures. Also included is an introduction to the iLife series of software that comes with the Mac.

GCOM 103 Introduction to Adobe Acrobat 1.5 Units

Prerequisite: None
Hours: 18 hours LEC; 27 hours LAB
Students will learn to use Adobe Acrobat 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 allow students to add interactive elements to 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, provided that the software version has changed.

GCOM 104 Real World Scanning 1.5 Units

Prerequisite: None
Hours: 18 hours LEC; 27 hours LAB
Real World Scanning is designed to help graphics professionals and enthusiasts, as well as more novice student, consistently achieve top-quality results with a variety of scanned images. The course begins with digital image and scanner fundamentals, then quickly advances to cover simple and complex line art scans, calibrating a scanner for optimal results, capturing grayscale and color photos, descreening, Optical Character Recognition (OCR), transparencies, scanning 3-D objects, and more. This course will help individual students make better decisions when purchasing a scanner as well as helping those who own, or have access to a scanner, to be able to create better scans. During this hands-on course, students will scan a variety of images: instructor provided materials of actual photos, line art, ephemera, printed matter, etc. or you may choose your own materials for scanning. 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 or laser printer, the web, or producing scans intended for commercial printing.

GCOM 105 Photoshop Special Features 1.5 Units

Prerequisite: GCOM 330 with a grade of "C" or better; or equivalent experience.
Hours: 18 hours LEC; 27 hours LAB
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, typography, color, gradients, 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

Prerequisite: None
Hours: 36 hours LEC; 54 hours LAB
This is a specialized course in Graphic Design, developed in cooperation with industry to address new and emerging technology and occupational training needs. Please see schedule note for specific course topic.

GCOM 284 Experimental Offering in Graphic Communication, Image Editing Related .5-4 Units

Prerequisite: None
Hours: 54 hours LEC; 162 hours LAB
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

Prerequisite: None
Hours: 54 hours LEC; 162 hours LAB
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

Prerequisite: None
Hours: 54 hours LEC; 162 hours LAB
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

Prerequisite: None
Hours: 18 hours LEC; 54 hours LAB
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 295 Independent Studies in Graphic Communication 1-3 Units

Prerequisite: None
Hours: 36 hours LEC
This course allows students to have a learning experience in the areas of graphic design, Web design, or animation that is not currently covered by other course curriculum. Students will gain new skills, a real-world experience, and portfolio pieces while independently studying under the advisement of a current Graphic Communication faculty member.

GCOM 299 Experimental Offering in Graphic Communication .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

GCOM 300 Prepress and the Printing Process 3 Units

Prerequisite: GCOM 310, or 313, or 316, or 340, or equivalent with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course offers computer and hands-on experience in prepress and preflight 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 modern printing opportunities. 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

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course focuses on the basic elements of layout design using Adobe PageMaker. Students will learn to create single and multipage 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 press-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

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 QuarkXPress 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to page layout, page composition, and electronic publishing utilizing a graphic design industry standard software, QuarkXPress. 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 QuarkXPress 3 Units

Prerequisite: GCOM 316 with a grade of "C" or better
Advisory: GCOM 330 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is an in-depth course covering creative page layout and graphic design, production, and electronic publishing. Utilizing the graphic design industry standard software, QuarkXPress, students will design and produce dynamic portfolio-quality projects. Through lecture, demonstration, and hands-on methods as well as class/instructor critiques, students will demonstrate and understanding of the graphic design process from creative concept to final production and the printed page. Topics include poster design, advertising design, typography, color theory, composition, publication cover and page design, brochure and packaging layout, basic web page design, book design, working with clients, and working with a service bureaus and printers. This course may be taken up to three times if the version of software being taught has changed.

GCOM 319 Print and Multimedia Publication Design 3 Units

Prerequisite: GCOM 313 OR GCOM 316 OR GCOM 361 with a grade of "C" or better, or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course examines newspaper, magazine, web, and multimedia publication design. Students are responsible for the design and production of the award-winning Sacramento City College school newspaper, bi-annual student magazine, and their accompanying web sites and multi-media content. Using fundamental design concepts and theory involving grid, page layout, typography, and visual communication, students will work alongside journalism and photography students to plan and produce a variety of content. This course offers an opportunity to build a portfolio and gain experience while working on real-world projects. This course may be taken three times for credit as students acquire more advanced skills and project responsibilities.

GCOM 330 Beginning Photoshop 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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 for Print, Using Adobe Photoshop 3 Units

Prerequisite: GCOM 330 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 332 Advanced Image Editing for Web/Multimedia, Using Adobe Photoshop 3 Units

Prerequisite: GCOM 330 with a grade of "C" or better, or equivelent
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course centers on advanced image editing techniques for Internet, multimedia, 3D and video applications, using the latest version of Photoshop. In addition to learning advanced capabilities of Photoshop, students will learn how to alter existing images realistically, creatively apply techniques to original artwork, prepare static and animated graphics for use on the Internet and other new media. and how to import and alter 3D and video images. 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

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
When illustrating digitally for print or Web media, one of the skills designers and illustrators need to have is the ability to draw with vector digital tools. This beginner's course provides professional tips and techniques in Illustrator software, while introducing graphic design and Web design students to theories of composition, typography, and color theory. Students learn how digital illustrations are produced, are exposed to a variety of different illustration styles, learn about the current trends, and discover the designers using digital illustration as a communication tool. 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

Prerequisite: GCOM 340 with a grade of "C" or better or equivalent
Advisory: ART 300 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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
Advisory: GCOM 313 or GCOM 340 with a grade of "C" or better or equivalent
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This in-depth course is an introduction to the principles 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 is a foundation course for graphic design students, but is also relevant to students studying Web design and computer animation.

GCOM 345 Advanced Graphic Design Production 3 Units

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.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is an in-depth graphic design course focusing on page layout design, production techniques, and electronic publishing. Students will utilize different industry standard software applications to complete projects containing "real world" challenges. Students will develop and follow a graphic design process (from concept to printed page), resulting in several new portfolio pieces. Topics include logo design, branding, working with a service bureau, multi-page publication design, packaging design, good environmental sustainability practices, and proper planning for a graphic design project.

GCOM 347 Typography: Principles and Creation 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
Typography is THE essential ingredient to successful graphic design, including print, web, and all other new media. The first half of this introductory course serves as an essential primer for graphic designers in understanding the history and core principles of typography. The second half focuses on students digitally creating their own fonts and typefaces with an introduction to the professional font creation and editing software Fontlab Studio.

GCOM 349 Portfolio 1.5 Units

Prerequisite: None
Advisory: Students should have at least four pieces of artwork or design projects to use in this course.
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
This course is intented for 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 Graphic Design or Web Design work noticed.

GCOM 350 Skills and Resources for Graphic Professionals 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course prepares students pursuing a career in the graphic related arts with industry skills essential to this occupation. Topics include: job searches, soliciting and performing freelance work, setting up a studio, working in an existing firm, winning work, developing client relationships, self-promotion, sustainability issues, and other resources. Using a combination of lectures with speakers from the industry, this course will offer practical advice and philosophical guidance towards gaining a rewarding career in the graphic arts industries.

GCOM 360 Web Site Prototyping and Graphics (Adobe Fireworks) 3 Units

Prerequisite: GCOM 330 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is for those wishing to design and develop professional quality, graphics-rich Web sites. Using Adobe Fireworks, students will prototype original web pages as well as prepare and optimize a variety of graphics. Through lecture, demonstration, hands-on methods, and class/instructor critiques, students will understand the process for designing a graphics-rich Web site. 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, optimization, 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 Design 3 Units

Prerequisite: GCOM 330 or GCOM 340 or GCOM 360 or CISW 350 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 Design (Advanced Dreamweaver) 3 Units

Prerequisite: GCOM 361 with a grade of "C" or better or the equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course applies the basic and intermediate principles of graphic design, HTML, and Cascading Style Sheets (CSS) to create W3C compliant websites. This course will use Dreamweaver as a

tool for students to practice and implement the design process for Web projects. Students will design and produce fully functional Web sites utilizing CSS, make good design decisions, create intuitive navigation and a consistent visual theme. This course may be taken three times if using a different software package or version of Dreamweaver.

GCOM 363 Advanced Creative Web Design (Adobe Flash) 3 Units

Prerequisite: GCOM 361 with a grade of "C" or better or equivalent
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 Adobe 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, 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 3 Units

Same As: CISW 470
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.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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. Credit can be given for either CISW 470 or GCOM 370, but not both.

GCOM 383 Interactive and Motion Design Using Macromedia Flash 3 Units

Prerequisite: GCOM 363 with a grade of "C" or better or equivalent experience
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 390 Introduction to Motion Design Using After Effects 3 Units

Prerequisite: GCOM 330 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course introduces the student to creating and animating 2D motion graphics using Adobe After Effects. Students will explore and master the tools and techniques needed to produce motion graphics and animations for television, film, and the web. Topics will include a basic overview of the program, 2D animation principles, motion tracking, the Puppet Tool, audio integration, advanced video effects, and the technical challenges of working with video and film materials.

GCOM 400 Introduction to the Principles of Animation 3 Units

Prerequisite: None
Advisory: ART 300 or 304 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course introduces students to the animation industry: a historical perspective, industry overview, and the principles and theory that guide animation. The principles of animation are emphasized through lecture and the use of 2D software tools. Students learn the animation production process and industry trends. Students work on hands-on projects creating 2D animations. This course is required for entry into GCOM 401.

GCOM 401 Introduction to Computer Animation 3 Units

Prerequisite: GCOM 400 with a grade of "C" or better or equivalent course.
Advisory: ART 304 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 3D software tools. Students experience the animation production process and are exposed to industry trends. Students work on hands-on projects creating 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

Prerequisite: None
Advisory: GCOM 341, GCOM 400 and ART 304 with grades of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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

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.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 420 Video Game Design 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This introductory course to video game design studies the art, technology, and science involved in the creation and development of computer games. The course covers video game history, game theory, design of computer-based games, delivery systems, development cycle, case studies, ethical and social issues, and emerging technologies and trends. This course emphasizes the understanding and the interdisciplinary nature of video game design; this course is not a computer programming course.

GCOM 424 Video Game Art 3 Units

Prerequisite: GCOM 330, 401, 402, and 420 with grades of "C" or better
Advisory: GCOM 361 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course explores the production of video game graphics. The course follows the role of the video game artist through the game development process. Using industry standard graphic software, students will develop and refine two-dimensional and three-dimensional video game assets. Topics covered include concept art, understanding and developing in game assets, user interface design, and troubleshooting. This course emphasizes the artistic side of video game design; this course is not a computer programming course.

GCOM 426 Video Game Level Design 3 Units

Prerequisite: GCOM 420 and 424 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course explores the art of video game level design. The course follows the level designer through the game development process. Using industry standard software, students will develop and refine a three-dimensional video game level. Topics covered include theme, audience, mood, player challenges, level narrative, puzzle design, diagram design, template creation, playtesting, and troubleshooting. This course emphasizes the artistic aspects of game level design; this course is not a computer programming course.

GCOM 490 Graphic Communication Studio .5-4 Units

Prerequisite: OPTION 1 (Graphic Design): GCOM 313 or GCOM 316 AND GCOM 340 or GCOM 330 with a grade of "C" or better or equivalents OR OPTION 2 (Web Design): GCOM 361 with a grade of "C" or better or equivalent. OR OPTION 3 (Computer Animation): GCOM 400 or GCOM 402 with a grade of "C" or better or equivalent.
Course Transferable to CSU
Hours: 43 hours LEC; 87 hours LAB
Graphic Communication Studio will introduce career-driven design students to producing, creating, and completing real-world graphic design, or Web design, or animation projects for non-profit organizations and the Sacramento community. Through lecture, demonstration, client meetings, and brainstorming sessions, students will have the opportunity to develop a portfolio of completed projects. Students will also experience deadlines, the client-designer relationship, how to set pricing for projects, and strategies for presenting concepts and design work. This course may be taken up to 3 times if there is a change in design medium (graphic design, Web design, or Animation).

GCOM 495 Independent Studies in Graphic Communication 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

GCOM 498 Work Experience in Graphic Communication 1-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 48 hours LEC
This course involves 12 hours lecture and 18 hours of graphic design, Web design, or animation-related work experience for one unit; 12 hours of lecture and 18 hours of graphic design, Web design, or animation-related work experience can be scheduled for each additional unit. Students are responsible for finding placement or may use internship services available on campus.

GCOM 499 Experimental Offering in Graphic Communication .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Health Education HEED

Division of Physical Education, Health, and Athletics

Mitchell Campbell, Dean/Athletic Director

Hughes Stadium, Sections 1 and 3

916-558-2425

HEED 300 Health Science 3 Units

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100 with grades of "C" or better.
General Education: AA/AS Area III(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, buVVilding 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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
This course is the official American Red Cross First Aid/Cardio-Pulmonary Resuscitation/Automated External Defibrillator for Schools and the Community course. Students will learn adult, child, and infant cardiopulmonary resuscitation (CPR). Students will also learn to safely operate an automated external defibrillator (AED) and basic first-aid. Students need to purchase face shields to work on manikins. American Red Cross Community CPR, AED and First Aid certificates will be issued upon completion of this course with a grade of "B" or better and payment of a $5.00 fee. This certification is valid for one year after the course completion date. This course may be taken four times for credit.

HEED 321 CPR: BLS for the Professional Rescuer 1 Unit

Prerequisite: None
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 9 hours LEC; 27 hours LAB
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. Included are methods for adult, child, and infant CPR as well as performing two-rescuer CPR, operating an automated external defibrillator (AED), and using rescue-breathing devices. Students will learn the skills 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 course and pay a $5.00 fee will be eligible to receive an American Red Cross certificate in CPR for the Professional Rescuer. This certification is valid for one year after the course completion date. This course may be taken four times for credit.

HEED 330 Health and Safety in Child Care Settings 1 Unit

Same As: ECE 410
Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC
This course covers 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, and emergency preparedness and evacuation. This course meets requirements of mandated training for child care providers. Students may receive credit for HEED 330 or ECE 410, but not both.)

HEED 340 College Success For The Student Athlete 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100 with grades of "C" or better
General Education: AA/AS Area III(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 California Community College Athletic Association (CCCCAA) 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.

HEED 495 Independent Studies in Health Education 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement among college, faculty members, and students. Independent studies in Health Education offers students a chance to do research that is more typical of community and graduate student work. This course may be taken four times for a maximum of 12 units provided there is no duplication of content areas.

HEED 499 Experimental Offering in Health Education .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
This is an experimental course offering designed to provide students with courses not normally offered by the Health Education Department. Course topics will be structured around new and emerging issues related to the field of Health Education. This course may be taken four times for a maximum of 16 units as long as there is no duplication of topics.

History HIST

Associate in Arts Degree

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

History

Associate in Arts Degree

Program Information

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).

Upon completion of this program, the student will be able to:

- evaluate historical questions with an understanding of the roles played by multiple causes and consequences and with an understanding that chronological sequence is important.
- recognize that interpretations of the past change and evaluate the basic strengths and weaknesses of competing interpretations.
- identify and use documents and secondary sources and cite them appropriately.
- evaluate primary and secondary sources and arguments.
- write essays in the form and format appropriate to history as a discipline
- demonstrate that understanding the past allows us to be more informed citizens, to have a critical understanding of society and social options.
- recognize the inclusive and exclusionary distinctions of diverse cultural heritages, based on race, gender, class, creed, or other conditions.
- analyze basic developments and ideas from early United States history.
- analyze basic developments and ideas from US history since Reconstruction.
- examine historical events in specific world regions, as well as large trends and themes up through 1500.
- examine historical events in specific world regions, as well as large trends and themes since 1500.
- demonstrate learning in a specific historical content area of the student's choice.

Required Program **Units**

Introduction to Early United States History: 3
HIST 310 History of the United States (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: 3
HIST 311 History of the United States (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: 6
HIST 300 History of Western Civilization (3)
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 (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.

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.

History (HIST)

HIST 300 History of Western Civilization 3 Units

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 V(b); AA/AS Area I; CSU Area C2; CSU Area D6; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area I; CSU Area C2; CSU Area D6; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(b); AA/AS Area I; CSU Area C2; CSU Area D6; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(b); AA/AS Area VI; CSU Area C; CSU Area D6; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area C; CSU Area D6; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(b); AA/AS Area VI; CSU Area D6; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(a); AA/AS Area VI; CSU Area D5; CSU Area D6; CSU Area F1; CSU Area F2; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(a); AA/AS Area VI; CSU Area D6; CSU Area F1; CSU Area F3; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(a); CSU Area D6; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 Area V(a); AA/AS Area VI; CSU Area D3; CSU Area D6; CSU Area F1; CSU Area F2; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 Area V(a); AA/AS Area VI; CSU Area D3; CSU Area D6; CSU Area F1; CSU Area F3; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(b); AA/AS Area VI; CSU Area D6; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 Area V(b); AA/AS Area VI; CSU Area C2; CSU Area D6; IGETC Area 3B; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 Area V(b); AA/AS Area I; AA/AS Area VI; CSU Area C; CSU Area D6; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 Area V(b); AA/AS Area I; AA/AS Area VI; CSU Area C; CSU Area D6; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Area V(a); AA/AS Area VI; CSU Area D6; CSU Area F1; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Area V(a); AA/AS Area VI; CSU Area D6; CSU Area F1; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area I; AA/AS Area VI; CSU Area C2; CSU Area D6; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 Area V(b); AA/AS Area I; AA/AS Area VI; CSU Area C2; CSU Area D6; IGETC Area 4C; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 300 with a grade of "C" or better
Advisory: Successful completion of at least one college history course.
General Education: AA/AS Area V(b); AA/AS Area II(b); CSU Area A3; IGETC Area 1B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area V(a); AA/AS Area VI; CSU Area D6; CSU Area F1; CSU Area F2; IGETC Area 4F
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area V(a); AA/AS Area VI; CSU Area D6; CSU Area F1; CSU Area F3; IGETC Area 4F
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area V(a); CSU Area D6; IGETC Area 4F
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

HIST 495 Independent Studies in History 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

HIST 499 Experimental Offering in History .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offerings

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 Anna Joy, (916) 558-2615, located in Rodda South 211 or from the Language and Literature Division Office in Rodda South 226. Students completing 12 units of Honors courses with at "B" average are designated "Honors Scholars" at graduation and on their transcript.

These Honors courses meet program requirements for certain certificates and degrees. Please see you counselor or the Honors Coordinator for more information.

Honors courses may be found in these subject areas:
Anthropology (ANTH 480, 481)
Art History (ARTH 484, 486, 487)
Chemistry (CHEM 484)
English - Literature (ENGLT 480, 481)
English - Writing (ENGWR 480, 482)
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)
Nutrition (NUTRI 480)
Philosophy (PHIL 480, 481, 482)
Political Science (POLS 480, 481)
Psychology (PSYC 480, 489)
Sociology (SOC 480)
Statistics (STAT 480)

Honors Course	Equivalent Course	Honors Course Title
ANTH 480	ANTH 300	Honors Physical Anthropology
ANTH 481	ANTH 310	Honors Cultural Anthropology
ARTH 484	ARTH 304	Ancient Art – Honors
ARTH 486	ARTH 306	Medieval Art – Honors
ARTH 487	ARTH 408	Renaissance Art – Honors
CHEM 484	none	Advanced General Chemistry – Honors
ENGLT 480	none	World Literature: Antiquity to the Early Modern World -Honors
ENGLT 481	none	World Literature: Seventeenth Century - Present – Honors
ENGWR 480	ENGWR 300	Honors College Composition
ENGWR 482	ENGWR 302	Honors Advanced Composition and Critical Thinking
FCS 480	FCS 340	Nutrition Honors
GEOG 480	GEOG 320	World Regional Geography, Honors
HIST 483	HIST 310	History of the United States – Honors
HIST 484	HIST 311	History of the United States – Honors
HIST 485	HIST 314	Recent U.S. History – Honors
HUM 480	HUM 300	Classical Humanities –Honors
HUM 483	HUM 332	American Humanities – Honors
MATH 482	none	Honors Introduction to Proof and Analysis
MUFHL 481	MUFHL 310	Survey of Music History and Literature – Honors
MUFHL 482	MUFHL 311	Survey of Music History and Literature – Honors
NUTRI 480	NUTRI 300	Nutrition (formerly FCS 480)
PHIL 480	PHIL 330	History of Classical Philosophy – Honors
PHIL 481	PHIL 331	History of Modern Philosophy – Honors
PHIL 482	PHIL 482	Law, Justice, and Punishment – Honors
POLS 480	POLS 310	Introduction to International Relations – Honors
POLS 481	POLS 301	Introduction to Government: United States – Honors
PSYC 480	PSYC 300	Honors General Principles
PSYC 489	none	Topics in Psychology – Honors
SOC 480	SOC 300	Introduction Sociology – Honors
STAT 480	STAT 300	Introduction to Probability and Statistics – Honors

Human Career Development HCD

Division of Counseling and Student Success

To Be Announced

Rodda North 111

916-558-2289

HCD 80 Diagnostic/Prescriptive Educational Assessment 1 Unit

Prerequisite: Intake Interview.
Hours: 18 hours LEC
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 course may be repeated for credit as indicated in the Student's Individual Educational Plan.

HCD 81 Diagnostic Assessment .5 Unit

Prerequisite: None
Hours: 9 hours LEC
This course is designed to evaluate eligibility for Learning Disability Program services, using guidelines mandated by the California Community Colleges system. This course will be graded on a Pass/No Pass basis. This course is an open entry/open exit course. Consent of instructor is required. Contact the Learning Disability Office for more information.

HCD 83 Diagnostic Learning in English 2 Units

Prerequisite: None
Hours: 18 hours LEC; 54 hours LAB
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. This course may be taken twice for credit.

HCD 84 Advanced Diagnostic Learning in English 2 Units

Prerequisite: HCD 83 with a grade of "C" or better
Hours: 18 hours LEC; 54 hours LAB
This course builds upon the content of HCD 83 by further developing students' perceptual skills to improve reading and spelling. The course may be taken twice for credit.

HCD 85 Diagnostic Learning in Mathematics 2 Units

Prerequisite: None
Hours: 18 hours LEC; 54 hours LAB
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. It offers individualized, self-paced instruction based upon students' current skills and educational goals. This course may be taken four times for credit.

HCD 89 Study Strategies Lab .5-1 Unit

Prerequisite: None
Hours: 54 hours LAB
This course will provide non-traditional instructional support for students with disabilities who are enrolled in other college courses. Graded on a Pass/No Pass basis. This is an open-entry, open-exit course that can be taken for 0.5-1.0 units. This course may be taken four times for a maximum of 4 units.

HCD 99 Workplace Success: A Sociological Map to Succeeding in the Workplace 3 Units

Same As: SOC 99
Prerequisite: None
Hours: 54 hours LEC
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 110 Building Foundations for Success 3 Units

Prerequisite: None
General Education: AA/AS Area III(b)
Hours: 54 hours LEC
This course provides success strategies and support services to entry level students. The strategies and support services are threaded through three critical areas that enhance student success: academic skills, personal life management, and educational navigation.

HCD 116 Orientation to College .5-1 Unit

Prerequisite: None
Hours: 18 hours LEC; 6 hours LAB
This course is designed to introduce the student to college resources, programs, and services. Topics covered include short-term goal setting, skill and interest assessment, educational alternatives, college requirements, and procedures. A field trip may be required.

HCD 138 MESA/CCCP Orientation 1 Unit

Prerequisite: None
Hours: 18 hours LEC; 6 hours LAB
This course is designed to assist MESA students in obtaining 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 and compatibility with success in college. A field trip may be offered.

HCD 299 Experimental Offering in Human Career Development .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

HCD 300 Independent and Group Studies .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
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 .5-4 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 sixteen (16) units.

HCD 302 The Puente Project 1 Unit

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
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

Prerequisite: None
Advisory: ENGRD 11 and ENGWR 50 or ESLR 310 and ESLW 310 with grades of "C" or better.
General Education: AA/AS Area III(b); CSU Area E1
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. College 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

Prerequisite: None
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC; 6 hours LAB
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 III(b)
Course Transferable to UC/CSU
Hours: 36 hours LEC
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. Optional field trips may be included.

HCD 320 Skills for Online Student Success 1 Unit

Prerequisite: None
Advisory: CISC 300 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC
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

Prerequisite: None
Advisory: ENGRD 11 or ENGWR 50 or ESLR 310 or ESLW 310 with a grade of "C" or better.
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 18 hours LEC
This course offers 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 360 Academic Skills 1 Unit

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
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 in order to become successful students.

HCD 495 Independent Studies in Human Career Development 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
See Independent Studies

HCD 499 Experimental Offering in Human Career Development .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Human Services HSER

Division of Learning Resources
Dr. Rhonda Rios Kravitz, 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

Prerequisite: None
Hours: 216 hours LAB
This course offers 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 course. 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 Pass/No Pass.

HSER 370 Introduction to Individual Peer Tutoring 1 Unit

Prerequisite: Tutors must complete the course they wish to tutor with a grade of "B" or better.
Course Transferable to CSU
Hours: 18 hours LEC
This 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.

HSER 373 Introduction to Group Peer Tutoring 1 Unit

Prerequisite: Tutors must complete the course they wish to tutor with a grade of "B" or better.
Course Transferable to CSU
Hours: 18 hours LEC
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 495 Independent Studies in Human Services 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 162 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members and students. Independent studies in human services offers students a chance to do research and/or experimentation that is more typical of industry and graduate student work. This course may be taken four times for credit.

HSER 499 Experimental Offering in Human Services .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
This course will be an experimental offering on topics not yet covered by current Human Services courses or an offering that addresses topics as they arise. This course can be repeated for credit four times as long as there is no duplication of topics.

HSER 1000 Supervised Tutoring 0 Units

Prerequisite: None
Enrollment Limitation: Student must be enrolled in a college credit course and be referred by an instructor or counselor.
Hours: hours LAB
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

Program Information
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 moverments of world cultures.

Humanities
Associate in Arts Degree

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 (4)
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 (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.

Humanities

HUM 300 Classical Humanities 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

HUM 310 Modern Humanities 3 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C1; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; CSU Area C; IGETC Area 3B
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

HUM 495 Independent Studies in Humanities 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Independent Studies

HUM 499 Experimental Offering in Humanities .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offerings

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
ADMJ 495
AERO 295, 495
AH 295, 495
ANTH 495*
ART 495*
ARTH 495*
ASTR 495*
BIOL 295, 495*
BUS 495
CANT 495*
CHEM 495*
CISC 295, 495
COMM 495*
COSM 295
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
FCS 295, 495
FREN 495*
GCOM 295, 495
GEOG 495*
GEOL 495*
GERM 495*
GERON 495
HCD 495
HEED 495
HIST 495*
HSER 495
HUM 495*
JAPAN 495*
JOUR 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
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*
STAT 495*
SURVY 495
TA 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<0x2019>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.

Industrial Technology

Associate in Arts (A.A.) Degree

The Associate in Arts Degree may be obtained by completion of a total of 24 units concentrated in one of the following technical areas plus general education requirements and sufficient electives to meet a 60-unit total. See SCC graduation requirements.

Engineering Design Technology

Electronics Technology

Mechanical-Electrical Technology

Photography

Graphic Communication

Instructional Assisting

Associate in Arts Degree

Certificate of Achievement

Instructional Assisting-Bilingual/Bicultural Emphasis, Degree and Certificate of Achievement

Instructional Assisting-General, Degree and Certificate of Achievement

Instructional Assisting-Special Education, Degree and Certificate of Achievement

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
Certificate of Achievement

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, 356, 358, 360, 362, 450, 498; FCS 346; 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.

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

Instructional Assisting-General

Associate in Arts Degree
Certificate of Achievement

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
ENGED 320 Service Learning: Tutoring Elementary Students in Reading	3
A minimum of 3 units from the following:	3
ECE 300 Introduction to Principles and Practices in Early Childhood Education (3)	
ECE 320 Curriculum and Interactions in Early Childhood Education (4)	
ECE 321 Advanced Practicum 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)	
ECE 415 Children's Health, Safety and Nutrition (3) or FCS 346 Children's Health, Safety and Nutrition (3)	
FCS 330 Sociology of Aging (3) or GERON 300 Sociology of Aging (3) or SOC 335 Sociology of Aging (3)	
Total Units Required	**28**

Suggested Electives
ECE 300, 320, 321, 356, 358, 360, 362, 415, 498; FCS 330, 340, 346; GERON 300, SOC 335, TA 404, ENGED 320, ENGLT 370

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 the 60-unit total. See SCC graduation requirements.

Certificate of Achievement
The Certificate of Achievement 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
Certificate of Achievement

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 Curriculum and Interactions 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 (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 the 60-unit total. See SCC graduation requirements.

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

Interdisciplinary Studies INDIS

Division of Behavioral and Social Science

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

INDIS 240 Service Learning Component 1 unit

Prerequisite: None
Enrollment Limitation: This is a service learning component that is linked to designated service learning courses. Students must be co-enrolled in a designated service learning course, and the prerequisites of that course must be met. Consultation with the instructor is required prior to enrollment and will generally take place during the first week of class.
General Education: AA/AS Area III(b)
Acceptable for credit: CSU
18 hours Lecture
This is an one-unit service learning course that can be added only to specific classes that will be designated in the Schedule of Classes. Students must be co-enrolled in a designated service learning course, and the prerequisites of that course must be met. Consultation with the instructor is required prior to enrollment and will generally take place during the first week of class. This course 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. It can be added to existing classes in a variety of disciplines and may be taken up to four (4) times with different classes that have been designated in the Schedule of Classes.

INDIS 340 Service Learning Component 1 Unit

Prerequisite: None
General Education: AA/AS Area III(b)
Enrollment Limitation: This is a service learning component which is linked to designated service learning courses. Students must be co-enrolled in a designated service learning course, and the prerequisites of that course must be met. Consultation with the instructor is required prior to enrollment and will generally take place during the first week of class.
Course Transferable to CSU
Hours: 18 hours LEC
This is an one-unit service learning course that can be added only to specific classes that will be designated in the Schedule of Classes. Students must be co-enrolled in a designated service learning course, and the prerequisites of that course must be met. Consultation with the instructor is required prior to enrollment and will generally take place during the first week of class. This course 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. It can be added to existing classes in a variety of disciplines and may be taken up to four (4) times with different classes that have been designated in the Schedule of Classes.

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

International Studies

Associate in Arts Degree

Program Information
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 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, Law, Fiscal Analysis, Teaching, Non-Governmental Organizations, Language Specialist, International Advocacy, International Consultancy.

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	3
GEOG 320 World Regional Geography	3
HIST 308 History of World Civilizations, 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
Foreign Language (Two Semesters)	8
Total Units Required	**29.5-33**

Suggested Electives
ARTH 320; ECON 304; ENGLT 480, 481; FCS 342; HCD 310; HIST 307; PHIL 352; SOCSC 352

Associate in Arts (A.A.) Degree
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, Certificate of Achievement

Division of Language and Literature

Albert Garcia, Dean

Rodda South 226

916-558-2325

Journalism

Associate in Arts Degree

Program Information

A major in journalism offers students the opportunity to take courses in media theories, news writing and reporting, AP style, and writing for publication, which readies them for the following courses that offer hands-on experience in three award-winning, student-produced publications: the Express, a biweekly print newspaper; Mainline, a magazine published once a semester; and ePress, a daily online news publication. The Journalism degree prepares students for university-level studies in Journalism and leads to entry-level employment and careers in print, broadcast, and online news media.

Career Opportunities

The Journalism A.A. degree is for students who have a goal of becoming journalism professionals, for which a degree is now expected. Some students pursuing this degree are future transfers who plan to major or minor in journalism at a four-year university and can complete lower-division major requirements through the A.A. Other students are re-entry students with a four-year degree and desire to add an associate's in journalism to their resume so they can obtain a position as a niche media person: an education reporter, a science editor, or a media outlet manager, for which a journalism degree is beneficial. Other re-entry students desire a journalism A.A. that will teach them skills so they can work in journalism, and then apply to journalism graduate schools. This program gives students the opportunity to prepare for entry-level positions as print and multimedia writers, reporters, copy editors, photographers, and designers for on-line media, broadcast stations, small newspapers, newsletters, or magazines.

Upon completion of this program, the student will be able to:

- analyze content of newspapers, magazines, and on-line media.
- demonstrate an understanding of basic news, feature writing, and reporting in print and on-line media.
- evaluate and critique their own journalistic work and the work of others.
- apply knowledge of grammar and AP style to create mass media products that conform with journalistic conventions.
- produce news and feature articles and/or news and feature photographs for publication in a newspaper, magazine or on-line publication.
- apply principles of audience and journalistic ethics to their writing and photography, especially as they relate to gender, ethnicities and class.
- demonstrate understanding of the fundamentals of mass media theories, concepts, and practices as they relate to gender, ethnicities and class constructs.

Required Program for the Degree	Units
JOUR 310 Mass Media and Society (3)	3
or ENGWR 384 Mass Media and Society (3)	
or COMM 351 Mass Media and Society (3)	
JOUR 302 Style for Media Writers	1
JOUR 300 Newswriting and Reporting	3
PHOTO 350 Photojournalism	3-4
JOUR 402 College Newspaper Production	3
A minimum of 12 units from the following:	12
JOUR 403 College Magazine Production (3)	
ENGWR 330 Writing for Publication (3)	
or JOUR 340 Writing for Publication (3)	
JOUR 320 Race and Gender in the Media (3)	
JOUR 405 Publications Production Skills Lab (0.5-3)	
JOUR 498 Work Experience in Journalism (1 - 4)	
GCOM 319 Print and Multimedia Publication Design (3)	
GCOM 316 Beginning Page Layout, Using QuarkXPress (3)	
or GCOM 313 Beginning Page Layout, Using Adobe InDesign (3)	
Total Units Required	**25-26**

Associate in Arts (A.A.) Degree

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

Certificate of Achievement

Program Information

A certificate as a Publications Specialist offers students the opportunity to take courses in media theories, news writing and reporting, AP style, and writing for publication, which readies them for the following courses that offer hands-on experience in three award-winning, student-produced publications: the Express, a biweekly print newspaper; Mainline, a magazine published once a semester; and ePress, a daily online news publication. The certificate prepares students for employment opportunities that require knowledge of and skills in producing print, broadcast, and online media.

Career Opportunities

The Publications Specialist certificate is geared for students who need to develop media skills as a component of their existing job, or want to acquire media skills as an opportunity to advance. The certificate is meant to train vocational students for work on print or on-line publications at a business, organization, or government agency. Students in this category may be, or want to become, responsible in their job duties for business newsletters, company Web sites, or public relations outreach within organizations. Students pursuing a certificate often are not interested in an exclusive media career, but want media skills to enhance their present job skills. They typically are not students who desire a professional media career. This certificate gives students the opportunity to gain skills as print and multimedia editors, writers, reporters, copy editors, photographers, designers on a company's or organization's on-line media Web site, newsletter, or trade magazine.

Upon completion of this program, the student will be able to:

- analyze content of newspapers, magazines, and on-line media.
- demonstrate an understanding of basic news, feature writing, and reporting in print and on-line media.
- evaluate and critique their own journalistic work and the work of others.
- apply knowledge of grammar and AP style to create mass media products that conform with journalistic conventions.
- produce news and feature articles and/or news and feature photographs for publication in a newspaper, magazine or on-line publication.
- apply principles of audience and journalistic ethics to their writing and photography, especially as they relate to gender, ethnicities and class.
- demonstrate understanding of the fundamentals of mass media theories, concepts, and practices as they relate to gender, ethnicities and class constructs

Required Program	**Units**
JOUR 310 Mass Media and Society (3)	3
or ENGWR 384 Mass Media and Society (3)	
or COMM 351 Mass Media and Society (3)	
JOUR 302 Style for Media Writers	1
JOUR 300 Newswriting and Reporting	3
PHOTO 350 Photojournalism	3 - 4
JOUR 402 College Newspaper Production	3
A minimum of 12 units from the following:	12
JOUR 403 College Magazine Production (3)	
ENGWR 330 Writing for Publication (3)	
or JOUR 340 Writing for Publication (3)	
JOUR 320 Race and Gender in the Media (3)	
JOUR 405 Publications Production Skills Lab (0.5 - 3)	
JOUR 498 Work Experience in Journalism (1 - 4)	
GCOM 319 Print and Multimedia Publication Design (3)	
GCOM 316 Beginning Page Layout, Using QuarkXPress (3)	
or GCOM 313 Beginning Page Layout, Using Adobe InDesign (3)	
Total Units Required	**25-26**

Certificate of Achievement

A Certificate of Achievement 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

Prerequisite: JOUR 302 with a grade of "C" or better or may be taken concurrently.
Advisory: ENGWR 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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
Course Transferable to CSU
Hours: 18 hours LEC
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 3 Units

Same As: COMM 351 and ENGWR 384
Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a "C" or better.
General Education: AA/AS Area V(b); CSU Area D4; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, and processes and effects from a social science perspective. (Credit may be awarded for COMM 351, ENGWR 384 or JOUR 310.)

JOUR 320 Race and Gender in the Media 3 Units

Prerequisite: None
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; CSU Area D4; IGETC Area 4C; IGETC Area 4D
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 ill 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
Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 54 hours LEC
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. Credit may be awarded for JOUR 340 or ENGWR 330, but not for both.

JOUR 340.1 Writing for Publication: Writing and Editing Concentration 1.5 Units

Same As: ENGWR 330.1
Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 27 hours LEC
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. Credit may be awarded for JOUR 340.1 or ENGWR 330.1, but not both.

JOUR 340.2 Writing for Publication: Marketing Concentration 1.5 Units

Same As: ENGWR 330.2
Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 27 hours LEC
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. Credit may be awarded for JOUR 340.2 or ENGWR 330.2 , but not both.

JOUR 350 Writing For Broadcasting 3 Units

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: JOUR 302 with a grade of "C" or better or concurrent enrollment.
Advisory: ENGWR 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 108 hours LAB
This is a course in which students produce the college newspaper 12 times a semester. The course develops students' ability in news writing, advertising, graphics, art work, photography, or editing. This course may be taken four times for credit.

JOUR 403 College Magazine Production 3 Units

Prerequisite: ENGWR 100 with a grade of "C" or better; JOUR 302 with a grade of "C" or better or concurrent enrollment.
Course Transferable to CSU
Hours: 18 hours LEC; 108 hours LAB
This is a course in which students produce a non-fiction college magazine one or two times per semester. This course is designed for students interested in writing, graphics, page layout, art, photography, or editing. This course may be taken four times for credit.

JOUR 404 Editing and Production 3 Units

Prerequisite: Eligibility for ENGWR 300.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course emphasizes editing and designing newspapers, magazines, and other publications. Topics include news and feature writing, copy editing, headline writing, page make-up and design, and production methods. Editorial writing, press ethics, and press law are also discussed.

JOUR 405 Publications Production Skills Lab .5-3 Units

Prerequisite: None
Corequisite: JOUR 402 or 404.
Course Transferable to CSU
Hours: 162 hours LAB
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 406 Online Production 3 Units

Prerequisite: None
Corequisite: JOUR 302
Advisory: GCOM 361 or JOUR 300 or PHOTO 380 with a grade of "C" or better
Course Transferable to CSU
Hours: 18 hours LEC; 108 hours LAB
This course produces the ePress, the online version of the college newspaper. Students will learn and utilize skills in online writing, editing, digital photography, digital video and audio production, Web design, and podcasting. The course will facilitate media convergence for the Express print newspaper and Mainline print magazine. This course offers opportunity to build a digital portfolio and to gain experience while working on real-world projects. This course may be taken four times for credit as students acquire more advanced skills in producing and managing an online publication and as they require more training in emerging techniques and software used in new media.

JOUR 495 Independent Studies in Journalism 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Independent Studies

JOUR 498 Work Experience in Journalism 1-4 Units

Prerequisite: None
Advisory: ENGWR 100 with a "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC; 162 hours LAB
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.

JOUR 499 Experimental Offering in Journalism .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 162 hours LAB
See Experimental Offering

Liberal Arts

Associate in Arts Degree

Program Information
The Liberal Arts degree is designed for students who wish to attain a broad knowledge of liberal arts and sciences plus additional studies in an "Area of Emphasis". This major would be an ideal choice for students planning on transferring to the California State University or University of California. The student will be able satisfy general education requirements, plus focus on transferable course work that relates to a specific major. The student will choose one "Area of Emphasis" to complete this major.

The "Areas of Emphasis" are explained as follows:

I. Arts and Humanities
These courses emphasize the study of cultural, literary, and humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments.
(Possible majors to include, but not limited to: humanities, theater arts, liberal arts, and fine arts.)

II. Communication and English Writing
These courses emphasize the content of communication as well as the form and should provide an understanding of the psychological basis and the social significance of communication. Students will be able to assess communication as the process of human symbolic interaction. Students will also develop skills in the areas of reasoning and advocacy, organization, accuracy, and reading and listening effectively. Students will be able to integrate important concepts of critical thinking as related to the development of analysis and critical evaluation. Students will also learn to reason inductively and deductively in order to make important decisions regarding life and society at large.
(Possible majors to include, but not limited to: English, communications, and philosophy.)

III. Social and Behavioral Sciences
These courses emphasize the perspectives, concepts, theories, and methodologies of the disciplines typically found in the vast variety of disciplines that comprise study in the Social and Behavioral Sciences. Students will study about themselves and others as members of a larger society. Topics and discussions to stimulate critical thinking about ways people have acted in response to their societies will allow students to evaluate how societies and social subgroups operate.
(Possible majors to include, but not limited to: sociology, social studies, psychology, and family science.)

IV. Math/Science
These courses emphasize the natural sciences which examine the physical universe, its life forms and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will also examine the influence that the acquisition of scientific knowledge has on the development of the world's civilizations.
(Possible majors to include, but not limited to: mathematics, biology, chemistry, and physical science.)

V. Understanding and Self Development
These courses emphasize the integration of various principles that impart to the student aspects of healthful living by the integration of physical, psychological, social, and spiritual factors for the student and larger society. Students will learn how to incorporate these principles into their own lives. Students will be able to critically evaluate their personal choices regarding disease prevention, healthy living, and making positive life choices.
(Possible majors to include, but not limited to: physical education, recreation and leisure studies, and health.)

Upon completion of this program, the student will be able to:
- Arts and Humanities: evaluate and interpret the ways in which people throughout the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation.
- Communication, English, and Critical Thinking: integrate important concepts of critical thinking as related to the development of analysis and critical evaluation.
- Communication and English Writing: reason inductively and deductively in making decisions regarding life and society at large.
- Social and Behavioral Sciences: evaluate how societies and social subgroups operate.
- Math and Science: demonstrate an understanding of methodologies of science as investigative tools.
- Understanding and Self Development: evaluate personal choices regarding disease prevention, healthy living, and making positive life choices.

Required Program

A minimum of 18 units from the following: 18
Choose ONE "Area of Emphasis" in which to complete a minimum of 18 units, from at least three different disciplines.

I. Arts and Humanities: ARABIC 401, 402; CANT 401, 402, 411, 412; FARSI 401, 402; FREN 401, 402, 411, 412; GERM 401, 402, 411, 412; ITAL 401, 402; JAPAN 401, 402, 411, 412; KOREAN 401, 402; MAND 401, 402, 411, 412; PNJABI 401, 402; RUSS 401, 402; SPAN 401, 402, 411, 412; TGLG 401, 402; VIET 401, 402; ART 300, 305, 320, 324, 337, 370, 380, 390, 400; ARTH 300, 302, 304, 306, 308, 310, 312, 313, 314, 320, 324, 325, 328, 330, 332, 334, 484, 486; COMM 305; ENGCW 400, 410, 420, 431; ENGLT 303, 304, 310, 311, 317, 320, 321, 325, 327, 331, 332, 334, 335, 345, 346, 360, 370, 380, 392, 400, 401, 403, 480, 481; ESLR 340; FASHN 330; HIST 300, 302, 305, 307, 308, 360, 364, 365, 373, 380; HUM 300, 310, 332, 350, 352, 480, 483; MUFHL 305, 309, 310, 311, 315, 320, 330, 331, 332, 400, 401, 410, 411, 481, 482; MUIVI 300, 315, 325, 345, 365, 366, 367, 368, 380, 381, 382, 383, 441, 443, 445, 447; MUP 315, 325, 335, 340, 355, 402, 411, 413, 415, 417; MUSM 342, 344; PHIL 300, 310, 330, 331, 333, 338, 352, 353, 354, 368, 480, 481, 482; SILA 306, 315, 316, 330; TA 300, 302, 303, 308, 310, 312, 314, 315, 318, 320, 342, 350, 360, 364, 370, 404, 422, 430, 437, 452, 454

II. Communication and English Writing: COMM 301, 302, 311, 315, 316, 331, 361; ENGWR 300, 301, 302, 480, 482; ESLW 340; HIST 400; PHIL 300, 320, 322, 325; SOC 305

III. Social and Behavioral Sciences: ADMJ 302, 303, 342; ANTH 310, 315, 317, 320, 330, 332, 334, 341, 481; BUS 330, 345; COMM 321, 325, 328, 335, 341, 351, 363; ECE 312, 314; ECON 302, 304, 480; ENGLT 334; ENGWR 384; FCS 312, 314, 320, 324, 326, 330, 332; GEOG 310, 320, 322, 480; GERON 300, 302; HIST 300, 302, 305, 307, 308, 309, 310, 311, 314, 320, 321, 344, 360, 364, 365, 370, 371, 373, 380 483, 484, 485; JOUR 310, 320; PHIL 368, 482; POLS 301, 302, 304, 310, 312, 313, 320, 322, 340, 480, 481; PSYC 300, 314, 316, 320, 335, 340, 353, 356, 360, 363, 367, 370, 374, 376, 390, 392, 405, 480; SOC 300, 301, 310, 312, 321, 330, 335, 341, 343, 344, 345, 375, 480; SOCSC 300, 320, 325, 330, 332, 335, 336, 350, 352

IV. Math/Science: ANTH 300, 301, 480; ASTR 310, 320, 330, 400; BIOL 305, 308, 309, 323, 342, 350, 370, 402, 412, 422, 430, 431, 440, 464, 465; CHEM 300, 305, 306, 320, 330, 331, 336, 400, 401, 410, 420, 421, 425, 426, 484; CISP 440; ECON 310, 482; GEOG 300, 301, 306, 308; GEOL 302, 305, 306, 308, 310, 311, 345; MATH 300, 310, 334, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482; PHYS 310, 350, 360 410, 420, 430; PSYC 310, 311; STAT 300, 480

V. Understanding and Self Development: BIOL 342; BUS 320; ECE 312, 314, 415; FCS 304, 312, 314, 320, 324, 326, 330, 332, 340, 344, 346, 480; GERON 300, 302; NUTRI 300, 302, 330, 480; HEED 300; HCD 310; one-unit maximum from any 300-level or 400-level ADAPT, DANCE, FITNS (except FITNS 371), PACT, SPORT, TMACT; PET 411, 418; PSYC 340, 353, 356, 358, 360, 370, 374, 390, 392, 410; SOC 310, 312, 335, 341, 344

Associate in Arts (A.A.) Degree

The Associate in Arts Degree may be obtained by complteion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit toatl. See SCC graduation requirements.

Liberal Studies

Associate in Arts Degree

Department of English

Division of Language and Literature

Albert Garcia, Dean

Rodda South 226

916-558-2325

Liberal Studies
Associate in Arts Degree

Program Information

A degree in Liberal Studies may be obtained by completing a combination of 18 transfer units from the departments listed below (in the required program) with grades of "C" or better. At least nine (9) units must be concentrated in one of these four areas:

1) English;

2) ESL;

3) Journalism; or

4) Languages.

At least one three-unit course must be completed in each of these three areas:

1) Communication (including Theater Arts);

2) Humanities; and

3) Philosophy.

Career Opportunities
An A.A. degree in Liberal Studies is a good gateway degree towards a transfer degree in any humanities, social science, interdisciplinary studies, or arts major.

Upon completion of this program, the student will be able to:
- demonstrate the ability to communicate clearly and effectively.
- evaluate arguments and texts.
- relate texts to their social and historical contexts.

Required Program
This degree is comprised of eighteen (18) transferable units total.

A minimum of 18 units from the following:
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).

A minimum of 9 units from the following (additionally, one three-unit course must be taken from EACH of the following areas:
1) Communication or Theatre Arts and Film;
2) Humanities; and
3) Philosophy.

Total Units Required **18**

Associate in Arts (A.A.) Degree
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.

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

Liberal Studies for Elementary Teachers

Associate in Arts Degree

Program Information

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 a minimum of 2.67 for all 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 graduation 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.)

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 (3) or HIST 483 History of the United States – Honors (3)	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**

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

Associate in Arts (A.A.) Degree

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. Students should consult a counselor for other associate degree graduation requirements.

Other Associate in Arts Degree Requirements

Physical Education - any activity course.

Students must meet the Reading Competency requirement through either assessment, a class, or a college-level reading examination.

Library LIBR

Division of Learning Resources

Dr. Rhonda Rios Kravitz, 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 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 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.

Library (LIB)

LIBR 305 Legal Information Resources .5 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 9 hours LEC
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, students who might be doing legal research, 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: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 9 hours LEC
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.

LIBR 307 Medical Information Resources .5 Unit

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 9 hours LEC
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: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 9 hours LEC
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: ENGWR 100 and ENGRD 310; or ESLR 320 and ESLW 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 9 hours LEC
This course will help students develop an understanding of search strategies and online databases and catalogs using resources such as online library catalogs, databases, 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

Prerequisite: None
Advisory: ENGWR 100 (College Writing) and ENGRD 310 (Prose Analysis and Interpretation); or ESLW 320 (Advanced-Low Writing) and ESLR 320 (Intermediate High Reading) with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
General Education: AA/AS Area III(b)
Course Transferable to UC/CSU
Hours: 18 hours LEC
This course will help students acquire the information competency skills necessary for success in their academic studies, in the workplace, and in their personal lives in the contemporary environment of rapid technological change and proliferating information resources. It provides a step-by-step guide to the research process that is applicable to term papers, course work, personal interest 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 Introduction to Internet Research 1 Unit

Prerequisite: None
Advisory: ENGWR 100 (College Writing) and ENGRD 310 (Prose Analysis and Interpretation); or ESLW 320 (Advanced-Low Writing) and ESLR 320 (Intermediate High Reading) with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 18 hours LEC
This course will acquaint students with the history, structure, and tools of the Internet as used for academic and personal research. Topics will include using the Internet for communication (email, mailing lists, 'blogs, etc.), selecting appropriate search tools, learning search strategies and evaluating the quality of information obtained online. This course may be taken twice for credit based on significant changes in the Internet.

LIBR 325 Internet Research Skills 3 Units

Same As: LIBT 325
Prerequisite: None
Advisory: ENGWR 100 (College Writing) and ENGRD 310 (Prose Analysis and Interpretation); or ESLW 320 (Advanced-Low Writing) and ESLR 320 (Intermediate High Reading) with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
General Education: AA/AS Area III(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

LIBR 495 Independent Studies in Library 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 162 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement among college, faculty, and students. Independent studies in LIBR allows students to investigate and explore areas of interest in the field.

LIBR 499 Experimental Offering in Library .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Library and Information Technology LIBT

Associate in Science Degree
Certificate of Achievement

Division of Learning Resources
Dr. Rhonda Rios Kravitz, Dean
Learning Resource Center 236
916-558-2253

Library and Information Technology

Associate in Arts Degree
Certificate of Achievement

Program Information
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 paraprofessionals. Additionally, the curriculum is a valuable introduction to the field for students who plan to go into graduate studies to become librarians.

Career Opportunities
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, businesses, and special libraries as well as in media centers.

Upon completion of this program, the student will be able to:
- describe the philosophical and legal foundations of libraries and the history, mission, roles and organization of various types of libraries and networks.
- examine and analyze the ethical, legal, and socio-political issues surrounding information and information technology and the basic laws, standards, and governance that pertain specifically to libraries and the Internet.
- evaluate materials and electronic resources, construct and implement effective search strategies, and select the most appropriate information retrieval systems to meet library user needs.
- apply standard methods of selecting/deselecting, acquiring, preparing, organizing (cataloging and classifying), maintaining and circulating library materials.
- describe the role technology plays in the creation, retrieval, and delivery of library resources and services.
- select, use, and maintain appropriate equipment for library functions and services; perform basic troubleshooting.
- manage a school library media center, a small library, or a department within a library.

Required Program	Units
LIBT 300 Introduction to the Library	3
LIBT 325 Internet Research Skills	3
LIBT 330 Library Technical Processes	3
LIBT 331 Library Cataloging Procedures	3
LIBT 333 Library/Media Materials and Equipment	1
LIBT 343 Library Reference Services	3
LIBT 345 Library Operations	2
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, 306, 307, 309, 311, 318, 320; LIBT 340, 341, 499

Associate in Science (A.S.) Degree
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.

Certificate of Achievement
The Certificate of Achievement 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.

Library and Information Technology (LIBT)

LIBT 300 Introduction to the Library 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 54 hours LEC
This course is designed for persons interested in exploring paraprofessional library employment and for students interested in acquiring basic skills in using library resources. The course covers the history and types of libraries and information providers; an overview of library services; instruction and practice in the use of library classification systems; instruction in developing searching strategies for using library catalogs, databases, and the Internet; and library employment opportunities. Field trips or alternative assignments will be required.

LIBT 325 Internet Research Skills 3 Units

Same As: LIBR 325
Prerequisite: None
Advisory: ENGWR 100 (College Writing) and ENGRD 310 (Prose Analysis and Interpretation); or ESLW 320 (Advanced-Low Writing) and ESLR 320 (Intermediate High Reading) with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
General Education: AA/AS Area III(b)
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: LIBT 300 with a grade of 'C' or better OR current enrollment in LIBT 300.
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 54 hours LEC
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 may be required.

LIBT 331 Library Cataloging Procedures 3 Units

Prerequisite: LIBT 300 and LIBT 330 with grades of "C" or better.
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 54 hours LEC
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 may be required.

LIBT 333 Library/Media Materials and Equipment 1 Unit

Prerequisite: LIBT 300 with a grade of "C" or better.
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better, or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 18 hours LEC
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 computers and computer networks, audio, video and related technologies. At least one field trip or alternative assignments will be required.

LIBT 340 The School Library Media Center 3 Units

Prerequisite: None
Advisory: The completion of ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with a grade of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 54 hours LEC
This course on the School Library Media Center provides a broad overview of its philosophy, history, function, and relationship to elementary and secondary schools. The course covers collections, technology, programming, marketing and public relations, budgeting, professional development, staffing, organization, advocacy, 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 and Youth 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 54 hours LEC
This course will be an exploration of the literature and electronic resources essential to working effectively with children and adolescents. Material selection and evaluation, information literacy, and programming will be related to classic and popular literature and media, multiculturalism, and other contemporary subjects. Students will experience storytelling, book talking, program preparation, and other ways of sharing literature with children and youth. Field trips or alternative assignments will be required.

LIBT 343 Library Reference Services 3 Units

Prerequisite: LIBT 300 with a grade of "C" or better or current enrollment in LIBT 300.
Advisory: ENGWR 100and ENGRD 310 or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 54 hours LEC
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 print and electronic sources include general and specialized encyclopedias, yearbooks, dictionaries, handbooks and other subject specific tools. Field trips or alternative assignments will be required.

LIBT 345 Library Operations 2 Units

Prerequisite: LIBT 300 with a grade of "C" or better
Advisory: ENGWR 100 and ENGRD 310; or ESLW 320 and ESLR 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 36 hours LEC
This course will introduce students to basic skills and competencies needed to operate a school/library media center, small library, or department within a large library. The course includes working within an organization, effective communication, planning and organization, time management, marketing and public relations, customer relations, budgeting, operational manuals and reports, problem behavior, disaster preparedness, and principles of supervision, such as hiring, training, motivating, delegating, counseling and disciplining, evaluating, grievances, labor relations, and termination.

LIBT 494 Topics in Library and Information Technology .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
This course is designed to enable library technology students to learn about recent developments in the library field. Selected topics would not include those which are part of current course offerings. This course may be taken four times providing there is no duplication of topics.

LIBT 495 Independent Studies in Library and Information Technology 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 162 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement among college, faculty, and students. Independent studies in LIBR allows students to investigate and explore areas of interest in the field.

LIBT 498 Work Experience in Library and Information Technology 1-4 Units

Prerequisite: LIBT 300 and 330 with grades of "C" or better.
Advisory: ENGWR 100 and ENGRD 310; or ESLR 320 and ESLW 320 with grades of "C" or better; or placement through the assessment process. Basic familiarity with computers is recommended for this course.
Course Transferable to CSU
Hours: 18 hours LEC; 60 hours LAB
This is structured, on-the-job training experience in Sacramento area libraries and school library media centers under the supervision of professional librarians and library media specialists. The student, in collaboration with the work experience supervisors, will prepare learning objectives that are approved by the instructor. In addition, each student will be required to keep a job journal, write a career essay, and prepare a resume. Credit hours may be earned for three or four units. One unit of credit will be granted for each 60 hours of unpaid work per unit or 75 hours of paid work. There will be a midterm and a final examination. For the Library and Information Technology degree or certificate, each student is required to work in a minimum of two libraries. If the student is already working in a library at a paraprofessional level, the current job may be counted as one of the libraries.

LIBT 499 Experimental Offering in Library and Information Technology .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Mathematics MATH

Associate in Science Degree

Division of Mathematics/Statistics & Engineering
Anne E. Licciardi, Dean
South Gym 220
916-558-2202

Mathematics
Associate in Science Degree

Program Information
The mathematics program provides students the opportunity to complete the lower-division coursework required for four-year programs in mathematics. Declared majors will be invited to an orientation with the opportunity to meet with mathematics faculty for advising. Majors will be encouraged to participate in mathematical activities such as seminars, conferences, and poster sessions.

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.

Upon completion of this program, the student will be able to:
- explain and apply basic concepts of single variate calculus including various forms of derivatives and integrals, their interconnections, and their uses in analyzing and solving real-world problems.
- explain and apply basic concepts of multivariate calculus, linear algebra, or differential equation techniques, their interconnections, and their uses in analyzing and solving real-world problems.
- write logical proofs of basic theorems.
- use appropriate computer applications to demonstrate mathematical problem solving.

Required Program	**Units**
A minimum of 21 units from the following:	21
MATH 400 Calculus I (5)	
MATH 401 Calculus II (5)	
MATH 402 Calculus III (5)	
MATH 410 Introduction to Linear Algebra (3)	
MATH 420 Differential Equations (4)	
MATH 482 Honors Introduction to Proof and Analysis (3)	
A minimum of 3 units from the following:	3
CISP 360 Introduction to Structured Programming (4)	
CISP 370 Beginning Visual Basic (4)	
CISP 400 Object Oriented Programming with C++ (4)	
CISP 401 Object Oriented Programming with Java (4)	
ENGR 405 Engineering Problem Solving (3)	
STAT 480 Introduction to Probability and Statistics - Honors (4) or STAT 300 Introduction to Probability and Statistics (4)	
Total Units Required	**24**

Note: Students planning to transfer to four-year institutions are advised to meet with a counselor for general education requirements.

Associate in Science (A.S.) Degree
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.

Mathematics (MATH)

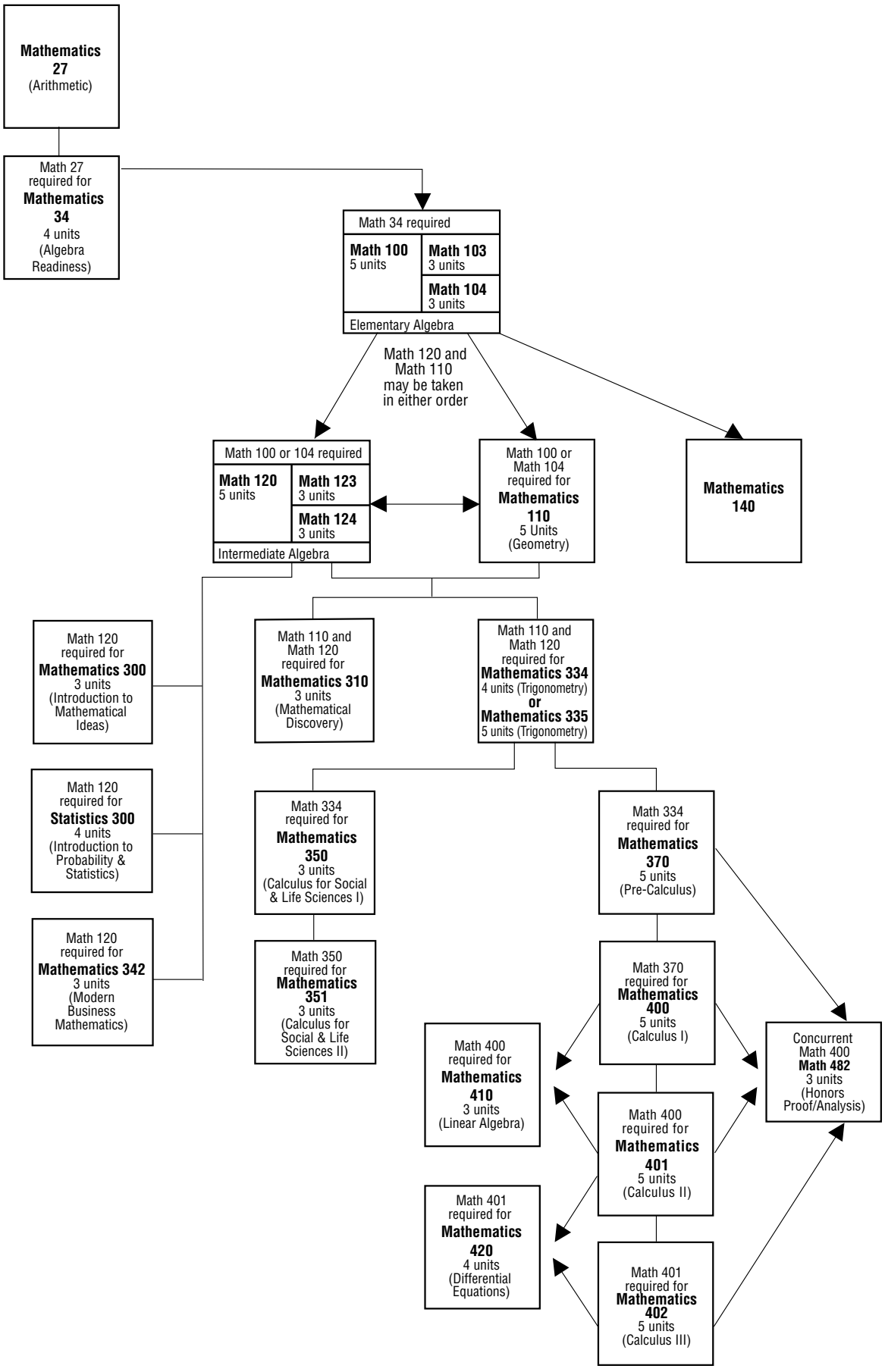
MATH 27 Self-Paced Basic Skills Mathematics .5-2 Units

Prerequisite: None
Hours: 24 hours LEC; 108 hours LAB
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 Pass/No Pass. Credit is earned in one-half unit increments, and is dependent on progress in the course and class participation. This is an open-entry/open-exit course with admission as late as the 12th week, and may be taken up to four times for a maximum of two units. This course does not fulfill the learning skills requirement for graduation.

MATH 34 Pre-algebra 4 Units

Prerequisite: MATH 27 with a "P" or by placement through the assessment process. A grade of "P" is completion of the MATH 27 curriculum, regardless of the number of units earned.
Hours: 72 hours LEC
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 and/or an introduction to graphing lines, as time permits.

Math Sequence



MATH 80 Mathematics Study Skills 1 Unit

Prerequisite: MATH 27 with a "P" (Pass) or by placement through the assessment process. A grade of "P" is completion of the Math 27 curriculum, regardless of the number of units earned. A list consisting of current students with a "P" grade in Math 27 will be issued from the Mathematics,Statistics, and Engineering Division to the instructor prior to the first day of instruction.
Advisory: ENGRD 110 with a grade of "C" or better
Hours: 18 hours LEC
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 course is graded as Pass/No Pass.

MATH 100 Elementary Algebra 5 Units

Prerequisite: MATH 34 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b)
Hours: 90 hours LEC
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, polynomial factorization, 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 quadratic equations.

MATH 103 Elementary Algebra, Part I 3 Units

Prerequisite: MATH 34 with a grade of "C" or better; or placement through the assessment process.
Hours: 54 hours LEC
This course will cover the first half of the traditional MATH 100 course. Topics include: properties of real numbers, linear equations and inequalities, integer exponents, polynomials, systems of linear equations and inequalities, the rectangular coordinate system, graphs and equations of lines, and applications.

MATH 104 Elementary Algebra, Part II 3 Units

Prerequisite: MATH 103 with a grade of "C" or better
General Education: AA/AS Area II(b)
Hours: 54 hours LEC
This course covers the second half of the traditional MATH 100 course. Topics include: polynomial factorization, rational expressions and equations, radical expressions and equations, rational exponents, quadratic equations, and applications.

MATH 110 Elementary Geometry 5 Units

Prerequisite: MATH 100 or 104 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b)
AA/AS: Mathematics Competency
Hours: 90 hours LEC
This course introduces Euclidean Geometry. Topics include sets, definitions, postulates, theorems, deductive and inductive reasoning, proof, parallel lines, triangles, polygons, congruence, similarity, constructions, the Pythagorean Theorem, right triangle trigonometry, circles, analytic geometry, and elementary solid geometry.

MATH 120 Intermediate Algebra 5 Units

Prerequisite: MATH 100 or 104 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b)
AA/AS: Mathematics Competency
Hours: 90 hours LEC
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, sequences, series and The Binomial Theorem.

MATH 123 Intermediate Algebra, Part I 3 Units

Prerequisite: MATH 100 or 104 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b)
Hours: 54 hours LEC
This course reviews and extends the concepts of elementary algebra with problem solving skills emphasized throughout. Topics include solving linear equations and inequalities, factoring of polynomials, rational expressions, exponents, radicals, solving equations containing rational and radical expressions, 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 II(b)
AA/AS: Mathematics Competency
Hours: 54 hours LEC
This course reviews and extends the concepts of elementary algebra and MATH 123 with problem solving skills emphasized throughout. Topics include quadratic expressions, equations, inequalities and graphs, systems of equations, composite and inverse functions, exponential and logarithmic functions, and sequences and series.

MATH 140 Mathematical Literacy 4 Units

Prerequisite: MATH 100 or 104 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b);
AA/AS: Mathematics Competency
Hours: 72 hours LEC
This course introduces students to every day uses of mathematics. Mathematical literacy is necessary to fully participate in the democratic decision-making process. Topics will include measurement systems, reasoning and logic, elections, inflation and other indexes, chance and risk, and finances, and may include other topics, such as environmental or health issues.

MATH 170 Algebra Review for Calculus 2 Units

Prerequisite: None
General Education: AA/AS Area II(b)
Hours: 36 hours LEC
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. Course is graded as Pass/No Pass.

MATH 295 Independent Studies in Mathematics 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
This is an independent studies course. The topics are to be arranged between the instructor and the student.

MATH 299 Experimental Offering in Mathematics .5-4 Units

Prerequisite: None
Hours: 108 hours LEC
See Experimental Offering.

MATH 300 Introduction to Mathematical Ideas 3 Units

Prerequisite: MATH 120 or 124 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2;
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is intended to help the non-Mathematics major 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

Prerequisite: MATH 120 or MATH 124 with a grade of "C" or better or placement through the assessment process; AND MATH 110 or two semesters of high school Geometry with grades of "C" or better.
General Education: AA/AS Area II(b)
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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 middle or high school 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

Prerequisite: MATH 120 or MATH 124 with a grade of "C" or better or placement through the assessment process; AND MATH 110 or a college Geometry course or two semesters of high school Geometry with grades of "C" or better.
General Education: AA/AS Area II(b); CSU Area B4
AA/AS: Mathematics Competency
Course Transferable to CSU
Hours: 72 hours LEC
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 335 Trigonometry with College Algebra 5 Units

Prerequisite: MATH 120 or MATH 124 with a grade of "C" or placement through the assessment process; AND MATH 110 or a college Geometry course or two semesters of high school Geometry with a grade of "C" or better.
General Education: CSU Area B4
AA/AS: Mathematics Competency
Course Transferable to CSU
Hours: 90 hours LEC
This is a full trigonometry course with algebra concepts reviewed, extended, and integrated when they are relevant to the trigonometric concepts. The trigonometric topics include right triangle trigonometry, unit circle trigonometry, graphs of trigonometric functions, proofs of trigonometric identities, solving trigonometric equations, applications of trigonometric functions (laws of sines and cosines), inverse trigonometric functions, and vectors. The algebra topics include graphs of polynomial and rational functions, conic sections, the polar coordinate system, and solving equations, inequalities, and systems of equations and inequalities (including using matrices to solve systems of equations).

MATH 342 Modern Business Mathematics 3 Units

Prerequisite: MATH 120 or 124 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b); CSU Area B4
AA/AS: Mathematics Competency
Course Transferable to CSU
Hours: 54 hours LEC
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, annuities, and exponential models in economics), rates of change including applications and optimization, and linear programming.

MATH 350 Calculus for the Life and Social Sciences I 3 Units

Prerequisite: MATH 334 or 335 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to calculus. Topics include functions, trigonometric functions, limits, analytic geometry, and differential calculus with applications to biological and social sciences. This course is intended for students majoring in the biological and social sciences and some business majors.

MATH 351 Calculus for the Life and Social Sciences II 3 Units

Prerequisite: MATH 350 with a grade of "C" or better
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a continuation of MATH 350. Topics include: definite and indefinite integrals, power series, analytic geometry, multivariate calculus, and differential equations, with applications to life and social sciences.

MATH 370 Pre-Calculus Mathematics 5 Units

Prerequisite: MATH 334 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 90 hours LEC
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 course.

MATH 400 Calculus I 5 Units

Prerequisite: MATH 370 with a grade of â¿¿Câ¿¿ or better, or placement through the assessment process
General Education: AA/AS Area II(b); IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 90 hours LEC
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. Standard proofs will be covered, such as delta/epsilon proofs and proofs of some theorems. Applications will be covered, including those involving rectilinear motion, differentials, related rates, graphing, and optimization.

MATH 401 Calculus II 5 Units

Prerequisite: MATH 400 with a grade of "C" or better
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 90 hours LEC
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 possibly 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

Prerequisite: MATH 401 with a grade of "C" or better
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 90 hours LEC
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 calculus will be included.

MATH 410 Introduction to Linear Algebra 3 Units

Prerequisite: MATH 400 with a grade of "C" or better
General Education: AA/AS Area II(b); IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course introduces linear algebra. Topics include matrices, determinants, systems of equations, vector spaces, linear transformations, eigenvectors, and applications. Proofs of elementary theorems of basic linear algebra will be covered. The course is intended for majors in mathematics, engineering, science, and related fields.

MATH 420 Differential Equations 4 Units

Prerequisite: MATH 401 with a grade of "C" or better
General Education: AA/AS Area II(b); IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 72 hours LEC
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
General Education: AA/AS Area II(b); IGETC Area 2
AA/AS: Mathematics Competency
Enrollment Limitation: Eligibility for the honors program
Course Transferable to UC/CSU
Hours: 54 hours LEC
This seminar 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 .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course provides the ability to take a course in mathematics that covers topics that are not part of the regular curriculum. This course may be taken up to four times for credit, for a maximum of 16 units, provided each course offering covers a different set of topics.

MATH 495 Independent Studies in Mathematics 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
This is an independent studies course. The topics are to be arranged between the instructor and the student.

MATH 499 Experimental Offering in Mathematics .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offerings

Mechanical-Electrical Technology MET

Associate in Science Degree

Certificate of Achievement

Mechanical-Electrical Technology, Degree and Certificate of Achievement

Machinery Systems Technician, Certificate of Achievement

Water and Wastewater Treatment Plant Operation, Degree and Certificate of Achievement

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Program Information
The Mechanical-Electrical Technology (MET) programs provides instruction in design, installation, operation, and maintenance of a wide range of mechanical and electrical equipment. The entire spectrum of mechanical and electrical systems is covered. These systems include heating, ventilating, air conditioning and refrigeration (HVAC/R), solar photovoltaic and solar hot water and water and wastewater systems. Areas of instruction include: energy management, mechanical system commissioning, indoor air quality, building automation systems, heating, cooling, heat pumps, refrigeration, refrigerant recovery and management, electrical controls, pneumatic controls, electronic controls, instrumentation, solar photovoltaic, solar hot water and wind energy and the operation of water and wastewater treatment plants.

Students learn the skills and concepts necessary to install, operate, maintain, repair and manage various mechanical and electrical systems from small residential equipment to large commercial and industrial facilities. Effective written, verbal communication, electronic communication, sketching, drafting, mathematical calculations and computer skills are 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 installation, operation, maintenance, repair, and equipment management skills included in HVAC/R, renewable and sustainable energy, and water and wastewater treatment industries. Students will not only learn the theory and fundamentals of mechanical equipment, but also be exposed to hands-on training in sophisticated training laboratories. Laboratory equipment students will work with includes: a water cooled chiller, cooling tower, steam and hot water boilers, thermal energy storage system, heat reclaim system, power management system, solar photovoltaic and solar hot water systems, packaged and split systems air conditioners, furnaces, and high and low temperature refrigeration systems. Students will also configure, program, and commission several Direct Digital Control (DDC) systems, pneumatic systems, and programmable logic controllers (PLC) on state-of-the-art computer training stations and directly on the operating systems in the laboratories.

The Mechanical-Electrical Technology Associate in Science Degree focuses on the skills and concepts necessary to install, operate, maintain, repair, and manage various mechanical and electrical systems from small residential equipment to large commercial and industrial facilities. The entire spectrum of mechanical and electrical systems will be covered including energy management, mechanical system commissioning, indoor air quality, building automation systems, refrigerant recovery and management, electrical controls, pneumatic controls, electronic controls, instrumentation, heat pumps, solar photovoltaic, solar hot water, and wind energy systems, and water and wastewater treatment systems. Effective writing, verbal communication, electronic communication, sketching, drafting, mathematical calculations and computer skills will be stressed throughout the program.

Certificates of Achievement are awarded to students who satisfactorily complete the various programs. Students completing the programs may also qualify for an Associate of Science degree. Certificates are offered in Mechanical-Electrical Technology, Water and Wastewater Treatment Plant Operation, and Mechanical Systems Technician. Preparation for the federal refrigerant transition and recovery license examination is also offered.

Classes are studied in both lecture and laboratory. Mathematics, science, drafting and technical writing, which are all related to the programs, are also studied.

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 job titles include: stationary engineer, air conditioning and refrigeration technician, maintenance mechanic, boiler operator, water or wastewater treatment plant operator, automatic control technician, solar, photovoltaic, wind (renewable and sustainable) energy technician, wholesale and manufacturer's sales representative.

Recommended High School Preparation
Completion of college preparatory English and general mathematics courses are highly desirable, but not required. Courses in drafting, algebra, and computer fundamentals will be beneficial.

Program Costs
In addition to normal student expenses such as tuition and textbooks, MET students must purchase 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.

Upon completion of this program, the student will be able to:

- apply problem-solving and analytical thinking skills in the maintenance, operation, testing, troubleshooting, and repair of heating, cooling and refrigeration systems, accessories, and controls.
- utilize tools and equipment in the maintenance, operation, testing, troubleshooting and repair of heating, cooling and refrigeration systems, accessories, and controls.
- demonstrate an understanding of the industry required Federal Refrigerant Transition and Recovery Certification license examination.
- recognize the importance of proper handling of refrigerants and the environmental impact of improper refrigerant management.
- operate and troubleshoot a hot water and high pressure steam boiler system, pumping and piping systems, and related heating equipment.
- design a heating-cooling system for a residential and commercial application from concept to finish.
- demonstrate an understanding of chilled water systems, air distribution, variable air volume systems thermal storage, cooling towers, and energy management.
- explain the concepts related to absorption air conditioning systems, helical-rotary, and centrifugal water chillers.
- demonstrate an understanding of electrical circuits and controls.
- design an electrical control schematic and troubleshoot various electrical equipment.
- utilize freehand sketching and drafting skills for use in field applications.
- demonstrate an understanding of different types, application and proper use of instruments to measure and record temperature, humidity, flow, light, sound, velocity, pressure, combustion emissions, air quality, voltage, level, force, and vibration.
- analyze complex systems of the Automatic Controls industries.
- design and program Automatic Control systems, Direct Digital Control systems, and Pneumatic Control systems.
- demonstrate the skills and knowledge necessary to be successful in Automatic Controls industries.
- analyze manufacturer's data of equipment performance and economic factors related to heating, cooling and refrigeration equipment, and estimate the cost of a refrigeration system installation including materials, labor, and profit.
- solve problems involving heat transfer, heating and cooling loads, air distribution, and psychometrics of air.
- evaluate and determine the need for periodic equipment maintenance, design a mechanical system maintenance program, and demonstrate an understanding of a maintenance contract.
- explain the concepts of potable water and wastewater treatment systems and processes.
- demonstrate an understanding of water resources and their preservation, treatment system components, related operation, and safety practices.
- install, operate, maintain, and troubleshoot various types of renewable and sustainable energy systems.

Mechanical-Electrical Technology

Associate in Science Degree
Certificate of Achievement

Required Program	**Units**
MET 255 Mechanical Systems Maintenance	1.5
MET 256 Fundamentals of Instruments and Electricity	1.5
MET 257 Fundamentals of Workplace Success	1.5
MET 351 Basic Mechanical Systems	5
MET 352 Mechanical Systems Calculations	4
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 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 Control Systems I	3
MET 381 Air Conditioning	4
MET 383 Instrumentation	4
MET 384 Automatic Control Systems II	3
MET 368 Heat Pump Operation and Maintenance	3
MIT 100 Introduction to Welding	1.5
Total Units Required	**55.5**

Suggested Elective
PHYS 310

Associate in Science (A.S.) Degree
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.

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

Water and Wastewater Treatment Plant Operation

Associate in Science Degree
Certificate of Achievement

This program focuses on water resources and their preservation, water treatment plant operation and systems, wastewater treatment plant operation and systems, water treatment system components, processes, regulations, and safety practices. In addition, the entire spectrum of mechanical and electrical systems will be covered including energy management, mechanical system commissioning, indoor air quality, building automation systems, refrigerant recovery and management, electrical controls, pneumatic controls, electronic controls, and instrumentation. Effective writing, verbal communication, electronic communication, sketching, drafting, mathematical calculations and computer skills will be stressed throughout the program.

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: water treatment plant operator, wastewater treatment plant operator, stationary engineer, maintenance mechanic, and automatic control technician.

Upon completion of the appropriate wastewater treatment courses in the Mechanical-Electrical Technology Program, a student will be eligible to receive three certificates sponsored by the Office of Water Programs at California State University, Sacramento, and the Mechanical-Electrical Technology Program at Sacramento City College; Operation of Wastewater Treatment Plants I, Operation of Wastewater Treatment Plants II, and Advanced Waste Treatment.

Upon completion of this program, the student will be able to:
- demonstrate an understanding of and be prepared to take the Wastewater Treatment Plant Operator Certification Examinations.
- demonstrate an understanding of water resources and their preservation, treatment system components, related operation, and safety practices.
- explain the concepts of wastewater treatment systems and processes.
- apply problem-solving and analytical thinking skills in the maintenance, operation, testing, troubleshooting, and repair of heating, cooling and refrigeration systems, accessories, and controls.
- utilize tools and equipment in the maintenance, operation, testing, troubleshooting and repair of heating, cooling and refrigeration systems, accessories, and controls.
- recognize the importance of proper handling of refrigerants and the environmental impact of improper refrigerant management.
- operate and troubleshoot a hot water and high pressure steam boiler system, pumping and piping systems, and related heating equipment.
- demonstrate an understanding of chilled water systems, air distribution, variable air volume systems thermal storage, cooling towers, and energy management.
- explain the concepts related to absorption air conditioning systems, helical-rotary, and centrifugal water chillers.
- demonstrate an understanding of electrical circuits and controls.
- design an electrical control schematic and troubleshoot various electrical equipment.
- utilize freehand sketching and drafting skills for use in field applications.
- demonstrate an understanding of different types, application and proper use of instruments to measure and record temperature, humidity, flow, light, sound, velocity, pressure, combustion emissions, air quality, voltage, level, force, and vibration.
- analyze complex systems of the Automatic Controls industries.
- design and program Automatic Controls systems, Direct Digital Control systems, and Pneumatic Control systems.
- demonstrate the skills and knowledge necessary to be successful in Automatic Controls industries.
- analyze manufacturer's data of equipment performance and economic factors of mechanical systems.
- solve problems involving heat transfer, heating and cooling loads, air distribution, and psychometrics of air.
- evaluate and determine the need for periodic equipment maintenance, design a mechanical system maintenance program, and demonstrate an understanding of a maintenance contract.

Required Program	**Units**
MET 255 Mechanical Systems Maintenance	1.5
MET 256 Fundamentals of Instruments and Electricity	1.5
MET 257 Fundamentals of Workplace Success	1.5
MET 351 Basic Mechanical Systems	5
MET 352 Mechanical Systems Calculations	4
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 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 Control Systems I	3
MET 381 Air Conditioning	4
MET 383 Instrumentation	4
MET 384 Automatic Control Systems II	3
MET 397 Basic Potable Water and Wastewater Treatment Processes	3
MIT 100 Introduction to Welding	1.5
Total Units Required	**55.5**

Associate in 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. See SCC graduation requirements.

Certificate of Achievement
A Certificate of Achievement may be obtained by completion of the MET Required Program with grades of "C" or better.

Mechanical Systems Technician

Certificate of Achievement

Program Information

The Mechanical Systems Technician Certificate of Achievement is designed to help the student learn the information and entry-level skills necessary to begin working in the Air Conditioning, Heating, Refrigeration, Water and Wastewater Treatment, and related industries. Safety, environmental impact issues, indoor air quality, and equipment maintenance will be emphasized throughout the program.

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, water and wastewater treatment plant operator, automatic control technician, wholesale and manufacturer's sales representative.

Upon completion of this program, the student will be able to:

- evaluate and determine the need for periodic equipment maintenance, design a machinery system maintenance program and demonstrate an understanding of a maintenance contract.
- apply problem-solving and analytical thinking skills in the maintenance, operation, testing, troubleshooting and repair of heating, cooling and refrigeration systems, accessories and controls.
- utilize tools and equipment in the maintenance, operation, testing, troubleshooting and repair of heating, cooling and refrigeration systems, accessories and controls.
- demonstrate an understanding of the industry required Federal Refrigerant Transition and Recovery Certification license examination.
- recognize the importance of proper handling of refrigerants and the environmental impact of improper refrigerant management.
- demonstrate an understanding of electrical circuits and controls.
- design an electrical control schematic and troubleshoot various electrical equipment.
- utilize freehand sketching and drafting skills for in field applications.
- analyze manufacturer's data of equipment performance and economic factors related to heating, cooling and refrigeration equipment.
- solve problems involving heating-cooling loads, heat transfer, air distribution, and psychometrics of air.
- explain the concepts of potable water and wastewater treatment systems and processes.

Required Program	**Units**
MET 255 Mechanical Systems Maintenance	1.5
MET 256 Fundamentals of Instruments and Electricity	1.5
MET 257 Fundamentals of Workplace Success	1.5
MET 351 Basic Mechanical Systems	5
MET 352 Mechanical Systems Calculations	4
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
MIT 100 Introduction to Welding	1.5
Total Units Required	**27.5**

Certificate of Achievement

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

Mechanical-Electrical Technology (MET)

MET 255 Mechanical Systems Maintenance 1.5 Units

Prerequisite: None
Hours: 27 hours LEC
This course introduces the student to basic maintenance concepts for basic mechanical systems. Units of instruction include coil maintenance, filters management, indoor air quality, lubrication, belts and drives, verifying operation, monitoring equipment, and maintenance contracts. 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 256 Fundamentals of Instruments and Electricity 1.5 Units

Prerequisite: None
Hours: 27 hours LEC
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. 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 257 Fundamentals of Workplace Success 1.5 Units

Prerequisite: None
Hours: 27 hours LEC
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, and drug and alcohol use. Components of this course will be offered online. Students will be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 294 Topics in Mechanical-Electrical Technology .5-4 Units

Prerequisite: None
Hours: 27 hours LEC; 54 hours LAB
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 295 Independent Studies in Mechanical-Electrical Technology 1-3 Units

Prerequisite: None
Hours: 54 hours LEC

MET 351 Basic Mechanical Systems 5 Units

Prerequisite: None
Advisory: MET 352 with a grade of "C" or better or concurrent enrollment in MET 352.
Course Transferable to CSU
Hours: 54 hours LEC; 108 hours LAB
This course is designed to introduce the student to the theoretical and practical applications of basic mechanical systems utilized in refrigeration, heating, cooling, steam power generation, photovoltaic and hot water solar systems, and the treatment of water for use in mechanical systems, drinking 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 Mechanical Systems Calculations 4 Units

Prerequisite: None
Advisory: MET 351 with a grade of "C" or better or concurrent enrollment in MET 351.
General Education: AA/AS Area II(b)
Course Transferable to CSU
Hours: 72 hours LEC
This course focuses on building mathematical skills specific to the mechanical-electrical trades; problem solving using metric (SI) units and English and metric unit conversions; 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 solutions to applied problems; freehand sketching employing multiview, 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 353 Water Treatment Plant Calculations 3 Units

Prerequisite: MET 352 with a grade of "C" or better
Advisory: MET 355 with a grade of "C" or better or concurrent enrollment in MET 355.
Course Transferable to CSU
Hours: 54 hours LEC
This course focuses on mathematical problems involving English and metric units concerned with water treatment plant operation and maintenance. Emphasis will be placed on the basic mathematical skills required to prepare and take the Water Treatment Plant Operator Certification Examinations. 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 354 Wastewater Treatment Plant Calculations 3 Units

Prerequisite: MET 352 with a grade of "C" or better
Advisory: MET 356 with a grade of "C" or better or concurrent enrollment in MET 356.
Course Transferable to CSU
Hours: 54 hours LEC
This course focuses on mathematical problems involving English and metric units concerned with wastewater treatment plant operation and maintenance. Emphasis will be placed on the basic mathematical skills required to prepare and take the Wastewater Treatment Plant Operator Certification Examinations. 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 Water Treatment Plant Operation and Maintenance I 3 Units

Prerequisite: None
Advisory: MET 353 with a grade of "C" or better or concurrent enrollment in MET 353.
Course Transferable to CSU
Hours: 54 hours LEC
This is the first of three courses (see MET 365 and MET 375) that focus on water resources and their preservation; water treatment systems and processes; system components; and related operation and safety practices. The emphasis of this course is safety and the effective operation and maintenance of a water treatment facility. 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 356 Wastewater Treatment Plant Operation and Maintenance I 3 Units

Prerequisite: None
Advisory: MET 354 with a grade of "C" or better or concurrent enrollment in MET 354.
Course Transferable to CSU
Hours: 54 hours LEC
This is the first of three courses (see MET 366 and MET 376) that focus on water resources and their preservation; wastewater treatment systems and processes; system components; and related operation and 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 361 Refrigeration Systems 4 Units

Prerequisite: MET 351 with a grade of "C" or better
Advisory: MET 352 with a grade of "C" or better. Concurrent enrollment in MET 362, MET 363, and MET 364.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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. 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 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

Prerequisite: MET 351 and 352 with grades of "C" or better
Advisory: MET 361, MET 363, and MET 364 with a grade of "C" or better or concurrent enrollment in MET 361, MET 363, and MET 364.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: MET 351 with a grade of "C" or better
Advisory: MET 361, MET 362, and MET 364 with a grade of "C" or better or concurrent enrollment in MET 361, MET 362, and MET 364.
Course Transferable to CSU
Hours: 27 hours LEC
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

Prerequisite: MET 256, 351, and 352 with grades of "C" or better
Advisory: MET 361, MET 362, and MET 363 with a grade of "C" or better or concurrent enrollment in MET 361, MET 362, and MET 363.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
This course is an introduction to power and control circuits and devices used with refrigeration, heating, cooling, pumping, water treating, photovoltaic, and hot water solar heating mechanical systems. Units of instruction include a study of electron theory, magnetism, induction, 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 365 Water Treatment Plant Operation and Maintenance II 3 Units

Prerequisite: MET 353 and 355 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This is the second of three courses (see MET 355 and MET 375) that focus on water resources and their preservation; water treatment systems and processes; system components; and related operation and safety practices. The emphasis of this course is on information needed by operators for the management and operation of water treatment facilities. 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 366 Wastewater Treatment Plant Operation and Maintenance II 3 Units

Prerequisite: MET 354 and 356 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This is the second of three courses (see MET 356 and MET 376) that focus on water resources and their preservation; wastewater treatment systems and processes; system components; related operation and safety practices. The emphasis of this course is on larger conventional wastewater treatment facilities. 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 368 Heat Pump Operation and Maintenance 3 Units

(formerly MET 392)

Prerequisite: MET 256, 351, and 352 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course provides instruction in basic refrigeration and heat pump theory, cooling and heating cycles, defrost cycles, controls, supplemental heat, flow control devices, and heat load 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 371 Heating and Power Machinery 4 Units

Prerequisite: MET 255, 361, and 364 with grades of "C" or better
Advisory: MET 372, MET 373, and MET 374 with a grade of "C" or better or concurrent enrollment in MET 372, MET 373, and MET 374.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
This course provides instruction in warm air furnaces, hydronic heating, hot water solar systems, and 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, and 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

Prerequisite: MET 361 and 362 with grades of "C" or better
Advisory: MET 371, MET 373, and MET 374 with a grade of "C" or better or concurrent enrollment in MET 371, MET 373, and MET 374.
Course Transferable to CSU
Hours: 54 hours LEC
This course focuses on mathematical problems involving English and metric (SI) units concerned with installation, operation, and maintenance of power machinery, and 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, psychrometrics, 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

Prerequisite: MET 255, 361, and 364 with grades of "C" or better
Advisory: MET 371, MET 372, and MET 374 with a grade of "C" or better or concurrent enrollment in MET 371, MET 372, and MET 374.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
This course provides instruction in the design and construction of mechanical and piping systems. Units of instruction include mechanical and plumbing codes, basic sketching techniques, recognition of standard symbols, computer aided drawing applications, and construction terms and specifications. 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

Prerequisite: MET 361 and 364 with grades of "C" or better
Advisory: MET 371, MET 372, and MET 373 with a grade of "C" or better or concurrent enrollment in MET 371, MET 372, and MET 373.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is the first of two courses (see MET 384) that focus on the study of controls and devices used in heating, ventilation, air conditioning, pumping, water treatment, and manufacturing systems. Units of instruction include introduction to control theory, final controls devices, 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 375 Water Treatment Plant Operation and Maintenance III 3 Units

Prerequisite: MET 365 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This is the third of three courses (see MET 355 and MET 365) that focus on water resources and their preservation; water treatment systems and processes; system components; and related operation and safety practices. The emphasis of this course is on small water treatment facilities. 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 376 Wastewater Treatment Plant Operation and Maintenance III 3 Units

Prerequisite: MET 366 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This is the third of three courses (see MET 356 and MET 366) that focus on water resources and their preservation; wastewater treatment systems and processes; system components; related operation and safety practices. The emphasis of this course is on larger secondary and tertiary wastewater treatment facilities. 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 378 Geothermal Heat Pump Operation and Maintenance 3 Units

(formerly MET 393)

Prerequisite: MET 256, 351, and 352 with grades of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
This course provides instruction in basic geothermal heat pump theory, cooling and heating cycles, load calculations, cost analysis, open and closed water loop systems, system diagnostics, and solar applications. 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

Prerequisite: MET 371 and 372 with grades of "C" or better
Advisory: MET 382, MET 383, and MET 384 with a grade of "C" or better or concurrent enrollment in MET 382, MET 383, and MET 384.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
This course provides instruction in the design, operation, and 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, photovoltaic and hot water solar systems, 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

Prerequisite: MET 372 with a grade of "C" or better
Advisory: MET 381, MET 383, and MET 384 with a grade of "C" or better or concurrent enrollment in MET 381, MET 383, and MET 384.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: MET 361 and 364 with grades of "C" or better
Advisory: MET 381, MET 382, and MET 384 with a grade of "C" or better or concurrent enrollment in MET 381, MET 382, and MET 384.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
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

Prerequisite: MET 371 and 374 with grades of "C" or better
Advisory: MET 381, MET 382, and MET 383 with a grade of "C" or better or concurrent enrollment in MET 381, MET 382, and MET 383.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is the second of two courses (see MET 374) that focus on the study of controls and devices 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 391 Mechanical Systems Commissioning 3 Units

Prerequisite: MET 381, 383, and 384 with grades of "C" or better
Advisory: MET 395 and MET 396 with a grade of "C" or better or concurrent enrollment in MET 395 and MET 396.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course focuses on the techniques and practices of commissioning controls and mechanical systems that are used in heating, ventilation, air conditioning, pumping, renewable and sustainable energy, and water treatment. Units of instruction include energy conservation; developing and implementing a comprehensive commissioning plan; inspection and testing of control systems, mechanical equipment, field devices and user interfaces to ensure that they are installed, programmed, and operated precisely as the design intent. 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 395 Water Treatment for Heating and Air Conditioning Equipment 3 Units

(formerly MET 385)
Prerequisite: MET 381 and 383 with grades of "C" or better
Advisory: MET 391, and MET 396 with a grade of "C" or better or concurrent enrollment in MET 391, and MET 396.
Course Transferable to CSU
Hours: 54 hours LEC
This course focuses on basic mechanical system water sides theories 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. 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 396 Air and Water Balance of Mechanical Equipment 3 Units

(formerly MET 386)

Prerequisite: MET 381 and 383 with grades of "C" or better
Advisory: MET 391, and MET 395 with a grade of "C" or better or concurrent enrollment in MET 391, and MET 395.
Course Transferable to CSU
Hours: 54 hours LEC
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. 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 397 Basic Potable Water and Wastewater Treatment Processes 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
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.

MET 495 Independent Studies in Mechanical-Electrical Technology 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

MET 499 Experimental Offering in Mechanical-Electrical Technology .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
See Experimental Offerings

Metals Industry Technology MIT

Division of Advanced Technology
Donnetta Webb, Dean
Technology 106
916-558-2491

MIT 100 Introduction to Welding 1.5 Units

Prerequisite: None
Hours: 18 hours LEC; 27 hours LAB
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 150 Shielded Metal Arc Welding (SMAW) 1.5 Units

Prerequisite: None
Hours: 18 hours LEC; 27 hours LAB
This course focuses on the industrial importance of the arc welding process. Units of instruction include shop safety, SMAW (stick electrodes), processes. Since the materials, tools and machines used in this course are potentially dangerous, only those students who demonstrate competence on a comprehensive safety test after the second week of instruction will be permitted to continue in the course. Safety glasses, leather gloves, work clothing and work shoes are required. This course may be taken three times for credit.

MIT 326 Advanced Oxy-Acetylene Welding and Related Processes 1.5 Units

Prerequisite: Completion of MIT 322.
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
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

Certificate of Achievement

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Motorcycle Maintenance Technician

Associate in Science Degree
Certificate of Achievement

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 101 Fuel, Lubrication and Cooling	3
MTRCL 102 Motorcycle Electrical Systems	3
MTRCL 110 Motorcycle Engine Theory	3
MTRCL 120 Motorcycle Exhaust, Frame, Suspension, Tires, Wheels, and Brakes	3
MTRCL 130 Motorcycle Engine Overhaul	3
MTRCL 140 Motorcycle Tune-Up and General Service	3
MTRCL 141 Motorcycle Dyno Operation and Data Acquisition	1.5
MTRCL 150 Power Transmission Systems	1.5
Total Units Required	**26**

Suggested Electives
CHEM 330; ET 300, 301; MIT 100; PHYS 310, EVT 121.

Associate in 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 reach a 60-unit total. See SCC graduation requirements.

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

Motorcycle Maintenance (MTRCL)

MTRCL 100 Introduction to Motorcycles, Motorcycle Design, and Maintenance Theory 5 Units

Prerequisite: None
Hours: 90 hours LEC
This course is a prerequisite to all the other courses required for the Career Certificate and/or Associate in Science Degree in Motorcycle Maintenance Technology. This course offers a brief view of the history of motorcycles as well as an in-depth discussion of modern machines. Further, it gives the student an overview of the theory of operation, nomenclature, and design principles involved in modern motorcycle systems maintenance.

MTRCL 101 Fuel, Lubrication and Cooling 3 Units

Prerequisite: MTRCL 100 with a grade of "C" or better; or equivalent.
Hours: 36 hours LEC; 54 hours LAB
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. Further, the skills of performing preventive maintenance, troubleshooting discrepancies, repairing the faulty system components, and learning how to assist customers in selecting suitable aftermarket parts in both dealer and independent shop settings are taught. Safety glasses, ear protection, and closed-toe leather shoes are required.

MTRCL 102 Motorcycle Electrical Systems 3 Units

Prerequisite: MTRCL 100 with a grade of "C" or better; or equivalent.
Hours: 36 hours LEC; 54 hours LAB
This course covers the principles of basic electricity including terms, circuits, wiring diagrams and symbols, magnetism, and both magnetic and chemical reaction 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. 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 104 Motorcycle Electronics 1.5 Units

Prerequisite: MTRCL 100 with a grade of "C" or better
Hours: 18 hours LEC; 27 hours LAB
This course introduces motorcycle electronics and includes a review of basic electrical terms, motorcycle electrical systems, Ohm's law, and schematics. Further, it covers infrared test equipment, Fluke digital multimeters, oscilloscopes, various sensor designs, and transducers.

MTRCL 105 Applied Basic Motorcycle Maintenance 3 Units

Prerequisite: None
Hours: 45 hours LEC; 27 hours LAB
This course is an introduction to basic motorcycle service and preventative maintenance; it is not part of the Motorcycle Maintenance Technology programs. It gives the students a comprehensive overview of the history of motorcycles from antiques to modern machines. Students will learn motorcycle maintenance safety procedure, basic theory of the principles of operation of modern motorcycle systems, and practical applications of those principles including basic electricity, battery care, and alternator operation. Upon the successful completion of this course, the students should be able to perform routine maintenance items such as selecting the correct fuels, oils and filters, checking wheel alignment, lubrication methods, and making informed modification decisions. The students will be prepared to perform routine daily and weekly service as well as proper seasonal storage preparation. Safety glasses, ear protection, and closed-toe leather shoes are required.

MTRCL 110 Motorcycle Engine Theory 3 Units

Prerequisite: MTRCL 100 with a grade of "C" or better; or equivalent.
Hours: 36 hours LEC; 54 hours LAB
This course offers a comprehensive view of how four-stroke motorcycle engines work through careful discussion of the theory of operation, technical principles, and engine components 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 3 Units

Prerequisite: MTRCL 100 with a grade of "C" or better; or equivalent.
Hours: 36 hours LEC; 54 hours LAB
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. A student will learn how to perform preventive maintenance, troubleshoot discrepancies, repair the systems, and assist customers in selecting suitable aftermarket parts in both a dealer and independent shop setting. Safety glasses, ear protection, and closed-toe leather shoes are required.

MTRCL 121 New Motorcycle Inspection, Assembly, Service, and Detail 3 Units

Prerequisite: None
Hours: 36 hours LEC; 54 hours LAB
This course is designed to provide the students with the knowledge and skills necessary to prepare new motorcycles to be showroom ready. This course is not part of the Motorcycle Certificate Program.

MTRCL 130 Motorcycle Engine Overhaul 3 Units

Prerequisite: MTRCL 100 with a grade of "C" or better; or equivalent.
Hours: 36 hours LEC; 54 hours LAB
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 afterwords. Further, it covers the use of overhaul and parts manuals and the logic employed in them. Further, the student should be able to provide advice 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 3 Units

Prerequisite: MTRCL 100 with a grade of "C" or better; or equivalent.
Hours: 36 hours LEC; 54 hours LAB
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, micro-fiche and computerized manuals, and the logic employed in them. Students will learn 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 leather shoes are required.

MTRCL 141 Motorcycle Dyno Operation and Data Acquisition 1.5 Units

Prerequisite: MTRCL 100 with a grade of "C" or better; or equivalent.
Hours: 18 hours LEC; 27 hours LAB
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. Safety glasses, ear protection, and closed-toe leather shoes are required. This course may be taken three times for credit providing the make and model of the motorcycle being tested changes.

MTRCL 150 Power Transmission Systems 1.5 Units

Prerequisite: MTRCL 100 with a grade of "C" or better or equivalent.
Hours: 18 hours LEC; 27 hours LAB
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.

MTRCL 295 Independent Studies in Motorcycle Maintenance Technician 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

MTRCL 299 Experimental Offering in Motorcycle Maintenance Technician .5-4 Units

Prerequisite: None
Hours: 36 hours LEC; 54 hours LAB
See Experimental Offerings

Music MUFHL, MUIVI, MUP, MUSM

General Music, Associate in Arts Degree

Commercial Music, Associate in Arts Degree and Certificate of Achievement

Audio Production Emphasis

Music Business Management Emphasis

Performance Emphasis

Songwriting/Arranging Emphasis

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

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, General
Associate in Arts Degree

Program Information
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.

Career Opportunities
The Music degree prepares students for careers in music performance, education, composition, conducting, retail music industry, music publishing, and music therapy. The degree also prepares students for further study at a four-year institution.

Recommended High School Preparation
Some background in voice or instrument. Ability to read music.

Upon completion of this program, the student will be able to:
- demonstrate performance ability on a chosen instrument.
- analyze musical scores and compositions.
- critique personal music performances and those of other musicians.
- analyze the elements of music (rhythm, melody, harmony, and form).
- create derivative or original music at a level appropriate to the area of specialization.
- compare and contrast the characteristics of various musical cultures and historical periods from the origin of music history to the present.

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)	3
or MUFHL 481 Survey of Music History and Literature - Honors (3)	
MUFHL 311 Survey of Music History and Literature (3)	3
or MUFHL 482 Survey of Music History and Literature - Honors (3)	
MUIVI 345 Beginning Piano	1-2
MUIVI 346 Beginning Piano	1-2
A minimum of 8 units from the following:	8
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 370 Rehearsal and Performance - Musical Ensemble (0.5-3)	
MUP 402 Vocal Ensemble (1-2)	
MUP 411 Woodwind Ensemble (1-2)	
MUP 413 Percussion Ensemble (1-2)	
MUP 415 String Ensemble (1-2)	
MUP 417 Brass Ensemble (1-2)	
MUP 422 Special Ensemble Participation (0.5-2)	
MUP 424 Commercial Music Ensemble (2)	
MUP 426 World Music Ensemble (1)	
A minimum of 4 units from the following:	4[1]
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 443 String Instruction (1-2)	
MUIVI 445 Woodwind Instruction (1-2)	
MUIVI 447 Percussion 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)	
MUIVI 370 Beginning Guitar (2)	
MUIVI 371 Intermediate Guitar (2)	
MUIVI 375 Popular Electric Guitar Styles (1)	

MUIVI 373 Popular Electric Bass Styles (1)
MUIVI 405 Jazz & Pop Styles on Drum Set (1)

Total Units Required **36-38**

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 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
	15-18

Students also must meet competencies 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
	15-18

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
	13-17

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
	10-14

Commercial Music

The Commercial Music option includes four areas of emphasis for career preparation. They are Audio Production, Music Business Management, Performance, and Songwriting/Arranging.

Audio Production Emphasis

Associate in Arts Degree
Certificate of Achievement

Program Information
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 give students a well-rounded foundation to begin work and/or to pursue a four-year degree.

Career Opportunities
The Commercial Music, Audio Production A.A. Degree program provides students with training toward career paths as audio engineers in professional recording studios, multi-media, and post-production audio specialists in corporate audio-visual departments, and as owner/engineers in smaller demo production studios.

Upon completion of this program, the student will be able to:
- demonstrate a basic knowledge of music recording equipment, and various music recording workflows.
- demonstrate a basic understanding of the processes involved in recording music groups in the semi-professional or home recording studio.
- demonstrate knowledge and understanding of the skills needed to conduct a professional music recording session.
- demonstrate the ability to properly use the equipment found in recording studios to achieve successful outcomes to a variety of activities common to the music recording workflow.
- demonstrate the ability to successfully complete projects in music mixing and audio post-production using both analog and digital platforms.

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 351 Analog Recording Consoles and Tape Machines (1.5) and MUSM 355 Advanced Microphone Techniques and Analog Session Outboard Gear (1.5)] or MUSM 350 Recording Studio Techniques (3)	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 357 Pro Tools 110 Intermediate 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 5.5 units from the following: 5.5
MUIVI 345 Beginning Piano (1-2)
MUIVI 300 Beginning Instruments (1-2)
MUFHL 305 Music Appreciation (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 330 Introduction to MIDI: Musical Instrument Digital Interface (2.5)

MUSM 340 Introduction To Desktop Audio (1)
MUSM 330 Introduction to MIDI: Musical Instrument Digital Interface (2.5)
MUSM 331 Intermediate MIDI: Musical Instrument Digital Interface (2.5)
MUSM 354 Recording Sessions Workshop (1.5)
MUSM 354 Recording Sessions Workshop (1.5)
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 (A.A.) Degree
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.

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

Music Business Management Emphasis

Associate in Arts Degree
Certificate of Achievement

Program Information
This program is designed to prepare students for entry level positions in the music industry in the areas of artist management, music publishing, talent agencies, concert promotion, and music distribution and retail; also for students to effectively manage and organize self-produced music projects.

Career Opportunities
Artist management and representation, independent recording labels, music publishing and licensing, music legal services, music publicity and public relations, concert promotion, music retail and distribution; self-management, artist-owned recording labels, and "do-it-yourself" music pursuits.

Upon completion of this program, the student will be able to:
- understand the structure and recent history of the U.S. music industry.
- demonstrate an understanding of key music industry concepts including copyright, music publishing, ownership and licensing of works, First Use, Fair Use, and Public Domain.
- demonstrate knowledge of legal, accounting, and managerial practices including recording artist agreements, recoupment, royalties, advances, licensing, artist management, and representation.
- enumerate, explain and objectively evaluate methods of music promotion including publicity, distribution, touring, downloads, licensing, and "do-it-yourself" techniques.
- create and/or generate outlines, schedules, budgets, and promotional materials used in music management, marketing, and business relations.
- analyze and interpret the effects of technology on legal, artistic, and financial aspects of the music industry.

Required Program **Units**

MUFHL 309 Introduction to American Popular Music 3
MUSM 110 The Business of Music 3
MUSM 115 The Development and Management of an Independent Record Label 3
MUSM 116 Legal Aspects Of The Music Industry 3
BUS 300 Introduction to Business 3
MGMT 304 Introduction to Management Functions 3

A minimum of 12 units from the following: 12
Select at least one course from each group. .....
Business Management: ACCT 101, CISA 305, CISA 340, GCOM 310, MGMT 308, TA 440 .....
Retail Marketing: MKT 300, MKT 310, MKT 314 .....
Communication Skills: COMM 302, COMM 343, MGMT 372, PSYC 358

Total Units Required **30**

Associate in Arts (A.A.) Degree
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.

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

Performance Emphasis

Associate in Arts Degree
Certificate of Achievement

Program Information
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 Opportunities
This program is for the student interested in being a performer of various styles of popular music - live and recorded.

Upon completion of this program, the student will be able to:
- demonstrate performance ability on a chosen instrument(s).
- demonstrate knowledge of contemporary musical styles.
- demonstrate basic knowledge of the audio recording process.
- participate in a audio recording session as a performer.
- demonstrate basic improvisational techniques.
- design and implement a practice routine for maintaining and improving performance skills.

Required Program **Units**

MUFHL 320 Exploring Music 3
MUFHL 309 Introduction to American Popular Music 3
MUIVI 345 Beginning Piano 1-2
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 2.5
MUSM 331 Intermediate MIDI: Musical Instrument Digital Interface 2.5
MUSM 342 Recording Studio Techniques 3
MUIVI 410 Applied Music 1
MUIVI 380 Improvisation Workshop 2

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 321 Basic Musicianship (3)
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 310 Survey of Music History and Literature (3)
MUFHL 311 Survey of Music History and Literature (3)
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 (A.A.) Degree
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.

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

Songwriting/Arranging Emphasis

Associate in Arts Degree
Certificate of Achievement

Program Information
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
This program is for the student who is interested in being a free-lance songwriter and arranger for commercial groups, advertising, schools, and churches.

Upon completion of this program, the student will be able to:
- compose music and words for songs found in contemporary commercial styles.
- create arrangements of songs for small ensembles.
- record basic audio and MIDI tracks for demo purposes.
- demonstrate basic knowledge concerning music contracts, copyrights, and royalties.
- demonstrate basic knowledge of contemporary music markets.

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 2.5
MUSM 331 Intermediate MIDI: Musical Instrument Digital Interface 2.5
MUSM 342 Recording Studio Techniques 3

A minimum of 5 units from the following: 5
MUFHL 321 Basic Musicianship (3)
MUFHL 410 Advanced Music TheoryEmphasis (4)
MUFHL 411 Advanced Music Theory *(4)*
MUFHL 430 Commercial Harmony and Arranging *(2)*
MUFHL 431 Commercial Harmony and Arranging *(2)*
MUSM 344 Recording Studio Techniques *(3)*
MUSM 350 Recording Studio Techniques *(3)*
MUP 424 Commercial Music Ensemble *(2)*
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 303 Introduction to the Short Story *(3)*

Total Units Required **37-38**

Associate in Arts (A.A.) Degree
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.

Certificate of Achievement
The Certificate of Achievement 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:

Music Fundamentals/History and Literature, MUFHL,

Music Performance, MUP

Instrumental/Voice Instruction, MUIVI

Specializations in Music, MUSM

Music Fundamentals, History & Lit (MUFHL)

MUFHL 305 Music Appreciation 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Enrollment Limitation: Students enrolled in online courses must be able to use online computer technology to listen to sound files in specific formats, which are part of the course.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to classical music style and composers. It includes a study of the basic elements of music (melody, harmony, form, etc.) and 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

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, R & B, 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

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 of various eras to develop their own musical and artistic judgments. This course is required for General Music Majors.

MUFHL 311 Survey of Music History and Literature 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 of various eras to develop their own musical and artistic judgments. This course is required for General Music Majors.

MUFHL 315 Jazz History 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Enrollment Limitation: Students enrolled in online courses must be able to use online computer technology to listen to sound files in specific formats, which are part of the course.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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, Latin 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

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to the basics of music reading and understanding. Students learn to read rhythms and pitches, to write and play scales and chords, and to analyze and write 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. This course is recommended as a general humanities class to those students majoring in audio-engineering and to those music majors who have not had sufficient preparation for MUFHL 400. This course is also recommended for those students interested in teaching children and those registered in beginning instrumental or voice classes.

MUFHL 321 Basic Musicianship 3 Units

Prerequisite: MUFHL 320 with a grade of "C" or better
Enrollment Limitation: Ability to play an instrument
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course concentrates on reading music for 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 Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to traditional folk, dance, devotional, and popular music from around the world. The emphasis of the course is on listening to music. Music of Africa, Asia and Pacific, Caribbean, Latin and North America, Europe, India, and the Middle East will be compared. Concepts of ethnicity, ethnocentrism, racism, ageism, class differences, and gender issues will be addressed. Occasional live performances by guest artists will be presented in class.

MUFHL 400 Music Theory 4 Units

Prerequisite: None
Advisory: MUIVI 345; 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 I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 72 hours LEC; 18 hours LAB
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

Prerequisite: MUFHL 400 with a grade of "C" or better
General Education: CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 72 hours LEC; 18 hours LAB
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

Prerequisite: MUFHL 401 with a grade of "C" or better
General Education: CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 72 hours LEC; 18 hours LAB
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

Prerequisite: MUFHL 410 with a grade of "C" or better
General Education: CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 72 hours LEC; 18 hours LAB
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

Prerequisite: None
Advisory: MUFHL 401 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC
This course introduces students to the study and application of practical harmony and arranging, using a variety of commercial styles such as jazz, rock, salsa, pop and fusion.

MUFHL 431 Commercial Harmony and Arranging 2 Units

Prerequisite: MUFHL 430 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC
This course provides students with a more advanced capability in practical harmony and arranging using a variety of commercial styles such as pop, jazz, rock, salsa, and fusion.

MUFHL 481 Survey of Music History and Literature - Honors 3 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Enrollment Limitation: Eligibility for the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 music history (MUFHL 310) 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

Prerequisite: None
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a survey of Western classical music from the time of 18th century Enlightenment to the present. 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 music history requirement (MUFHL 311) 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 495 Independent Studies in Music Fundamentals/History and Literature 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members, and students. Independent Studies in Music Fundamentals, History, and Literature offers students a chance to do research that is more typical of students in advanced music theory and history courses.

MUFHL 499 Experimental Offering in Music Fundamentals/History and Literature .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Music Instrumental/Voice Instruction (MUIVI)

MUIVI 300 Beginning Instruments 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 and one-quarter hours a week practice in the music lab is required for the two-unit option. This course may be taken four times for credit provided a different level is taken each time.

MUIVI 315 Voice Class 1-2 Units

Prerequisite: None
Advisory: ENGWR 50 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is a study of the fundamentals of voice production. Stage presence is observed and practiced in performance of solos by class members. A minimum of two and one-quarter hours per week practice in the music lab is required for the two-unit option. This course may be taken two times for credit provided a different level is taken each time.

MUIVI 325 Voice Class, Intermediate 1-2 Units

Prerequisite: MUIVI 315 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 and one-quarter hours per week practice in the music lab is required for the two-unit option. This course may be taken two times for credit provided a different level is taken each time.

MUIVI 330 Advanced Voice 1-2 Units

Prerequisite: MUIVI 325 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 and one-quarter hours per week practice in the music lab is required for the two-unit option. This course may be taken four times for credit provided a different level is taken each time.

MUIVI 345 Beginning Piano 1-2 Units
Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of C or better.
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is an introduction to basic piano playing and it is required for all general and commercial music majors. The course prepares the transferring student for a piano placement examination. This course is also appropriate as an enrichment class for the continuing education student. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 346 Beginning Piano 1-2 Units
Prerequisite: MUIVI 345 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is a continuation of MUIVI 345. The course prepares the transferring student for a piano placement examination. This course is also appropriate as an enrichment class for the continuing education student. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 355 Intermediate Piano 1-2 Units
Prerequisite: MUIVI 346 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is an intermediate study of piano designed for both the general and commercial music major and non-music major. This course is also appropriate for the continuing education student. Training includes technique and repertoire for those students who have acquired a basic knowledge of playing and reading music written for 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
Prerequisite: MUIVI 355 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is a continuation of MUIVI 355. It is an intermediate study of piano designed for both the general and commercial music major and non-music major. This course is also appropriate for the continuing education student. Training includes technique and repertoire for those students who have acquired a basic knowledge of playing and reading music written for 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
Prerequisite: MUIVI 356 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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
Prerequisite: MUIVI 357 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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
Prerequisite: MUIVI 355 with a grade of "C" or better or by demonstrating equivalent skills.
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 1.5 hours a week in the music learning lab is needed for the two-unit option.

MUIVI 366 Popular Piano Styles 1-2 Units
Prerequisite: MUIVI 365 with a grade of "C" or better; or by demonstrating equivalent skills
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This is an intermediate level course in popular piano styles and techniques. Students will continue to 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
Prerequisite: MUIVI 366 with a grade of "C" or better; or by demonstrating equivalent skills
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This is an intermediate/advanced level course in popular piano styles and techniques. Students will learn new ways to harmonize, solo, improvise, and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of 1.5 hours a week in the music learning lab is needed for the two-unit option.

MUIVI 368 Popular Piano Styles 1-2 Units
Prerequisite: MUIVI 367 with a grade of "C" or better; or by demonstrating equivalent skills
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This is an intermediate/advanced level course in popular piano styles and techniques. Students will learn new ways to harmonize, solo, improvise, and accompany others in blues, rock, jazz, country, R & B, and Latin styles, as well as modern pop styles. A minimum of 1.5 hours a week in the music learning lab is needed for the two-unit option.

MUIVI 370 Beginning Guitar 2 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 18 hours LAB
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 course may be taken two times for credit provided that a different level is taken each time.

MUIVI 371 Intermediate Guitar 2 Units

Prerequisite: MUIVI 370 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 18 hours LAB
This course is designed to increase repertoire, develop technical skills, and improve sight-reading ability. In addition, ensemble playing will be emphasized and fingerboard theory and harmony will be explored. This course may be taken four times for credit once at each level.

MUIVI 373 Popular Electric Bass Styles 1 Unit

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC; 18 hours LAB
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 once at each level.

MUIVI 375 Popular Electric Guitar Styles 1 Unit

Prerequisite: None
Advisory: MUIVI 370; MUIVI 370 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 18 hours LAB
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 once at each level.

MUIVI 376 Popular Electric Guitar and Bass Practice Lab 1 Unit

Prerequisite: MUIVI 373 or 375 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LAB
This course is for students who have successfully completed MUIVI 373 or MUIVI 375 and who want to continue with their instrumental studies. This course offers students additional methods of practicing electric guitar and bass techniques in several popular music styles: rock, blues, funk, jazz, country, and fusion. Both lead and rhythm guitar and bass 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

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play a musical instrument.
Course Transferable to UC/CSU
Hours: 27 hours LEC; 27 hours LAB
This course is designed to give students an introduction to improvising in a variety of styles. Students will learn about basic scale and chord materials and song forms needed to improvise. Students will gain practical experience playing with others.

MUIVI 381 Improvisation Workshop 2 Units

Prerequisite: MUIVI 380 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 27 hours LEC; 27 hours LAB
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

Prerequisite: MUIVI 381 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 27 hours LEC; 27 hours LAB
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

Prerequisite: MUIVI 382 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 27 hours LEC; 27 hours LAB
This course is an advanced study of improvisational techniques. Students will learn about 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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC; 18 hours LAB
This course offers students methods of practicing drum set 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 once at each level.

MUIVI 410 Applied Music 1 Unit

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC
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 the duration of the semester. This course meets one hour per week on campus for students to practice performing and to discuss topics related to performance. This course may be taken four times for credit, once at each level.

MUIVI 441 Brass Instruction 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play a brass instrument based on the instructor's evaluation.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 and one-quarter hours a week practice in the music lab is required for the two-unit option. This course may be taken for credit four times provided that a different level is taken each time.

MUIVI 443 String Instruction 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play a string instrument (violin, viola, cello, or double-bass), based on the instructor's evaluation
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 and one-quarter hours a week practice in the music lab is required for the two-unit option. This course may be taken for credit four times provided that a different level is taken each time.

MUIVI 445 Woodwind Instruction 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play a woodwind instrument (flute, oboe, clarinet, bassoon, or saxophone), based on the instructor's evaluation.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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. A minimum of two and one-quarter hours a week practice in the music lab is required for the two-unit option. This course may be taken for credit four times provided that a different level is taken each time.

MUIVI 447 Percussion Instruction 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play percussion instruments, based on the instructor's evaluation
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 and one-quarter hours a week practice in the music lab is required for the two-unit option. This course may be taken for credit four times provided that a different level is taken each time.

MUIVI 450 Popular Fiddle and Mandolin Instruction 1 Unit

Prerequisite: None
Enrollment Limitation: The ability to play the fiddle or mandolin at the intermediate level.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 18 hours LAB
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. This course will work with treble melody-chord charts of moderate difficulty. This course may be taken four times for credit provided that a different level is taken each time.

MUIVI 452 World Drumming 1 Unit

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC; 18 hours LAB
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 provided that a different level is taken each time.

MUIVI 454 Indian Classical Fusion Improvisation 1 Unit

Prerequisite: None
Enrollment Limitation: Ability to sing or to play any musical instrument. Students must provide their own musical instruments.
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
This course is the study and performance of the two elements of Indian classical music: Raga (melody) and Tala (Rhythm). Students learn to use these elements to improvise and compose music in this tradition. Students learn about Raga permutation possibilities and playing in various talas (rhythmic cycles) such as: 10, 4 3/4, 9 1/4 beats. Students develop a sense of melodic freedom without having harmonic restrictions and explore many rhythmic possibilities found in Indian classical music. Students learn to synthesize Indian and Western roots to create new musical systems.

MUIVI 495 Independent Studies in Music Instrumental/Voice Instruction 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members, and students. Independent Studies in Instrumental or Vocal music offers students a chance to do research that is more typical of students in advanced instrumental or voice courses.

MUIVI 499 Experimental Offering in Music - Instrumental/Voice Instruction .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Music Performance (MUP)

MUP 315 Orchestra 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play an instrument commonly found in an orchestra and read musical notation.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course includes the study and performance of orchestral repertoire. It is open to those who play orchestral instruments. 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 provided a different level is taken each time.

MUP 325 Jazz Band 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play an instrument commonly found in jazz bands
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 provided a different level is taken each time.

MUP 326 Advanced Jazz Band 2 Units

Prerequisite: MUP 325 with a grade of "C" or better
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
This course includes a continued, and more advanced experience in 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 provided a different level is taken each time.

MUP 335 Concert Band 1 Unit

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play an instrument commonly found in a concert band and read musical notation
Course Transferable to UC/CSU
Hours: 54 hours LAB
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. 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

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play an instrument commonly found in a symphonic band and read musical notation
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 provided a different level is taken each time.

MUP 355 College Choir 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Students should have some choral experience and/or ability to read music notation. Students must be able to sing on pitch. These abilities would be evaluated by the instructor.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course includes the rehearsal and performance of choral music covering a wide variety of styles. This course is open to all qualified students. This course may be taken four times for credit provided a different topic is taken each time.

MUP 370 Rehearsal and Performance - .5-3 Units
Musical Ensemble

Same As: TA 466
Prerequisite: None
Enrollment Limitation: Students are selected through auditions as singers and instrumentalists.
Course Transferable to UC/CSU
Hours: 162 hours LAB
This course is open to students performing in theatrical musical productions. It provides a workshop training experience in the preparation and performance of musical literature. Students are selected through audition as singers and instrumentalists. The course requires 27 hours of laboratory for each half-unit of credit. This course is cross-listed with TA 466. This course may be taken four times for a maximum of 12 units. Units may be earned from both MUP 370 and TA 466 for a maximum of 12 units.

MUP 402 Vocal Ensemble 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Students should have some choral experience and/or ability to read music notation. Students must be able to sing on pitch. These abilities would be evaluated by the instructor.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 provided a different level is taken each time.

MUP 411 Woodwind Ensemble 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play a woodwind instrument, to be evaluated by the instructor
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course includes the rehearsal and performance of ensemble music for woodwinds. The course may be taken four times for credit provided that a different level is taken each time.

MUP 413 Percussion Ensemble 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play percussion instruments
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course includes the rehearsal and performance of ensemble music for percussion. The course may be taken four times for credit provided a different level is taken each time.

MUP 415 String Ensemble 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play a string instrument
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course offers coaching in the study and performance of music for guitar and/or orchestral staring ensembles. The course may be taken four times for credit provided that a different level is taken each time.

MUP 417 Brass Ensemble 1-2 Units

Prerequisite: None
General Education: CSU Area C1
Enrollment Limitation: Ability to play a brass instrument
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course includes the rehearsal and performance of ensemble music for brass. The course may be taken four times for credit provided that a different level is taken each time.

MUP 422 Special Ensemble .5-2 Units
Participation

Prerequisite: None
Enrollment Limitation: Ability to play a musical instrument
Course Transferable to UC/CSU
Hours: 108 hours LAB
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

Prerequisite: None
Enrollment Limitation: Audition required before students may enroll in the class. Students must have the ability to play an instrument at an intermediate level.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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 provided a different topic is taken each time.

MUP 426 World Music Ensemble 1 Unit

Prerequisite: None
Enrollment Limitation: Ability to play an instrument
Course Transferable to UC/CSU
Hours: 18 hours LEC; 18 hours LAB
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, musical backgrounds, and competence. Performance is not required, but is encouraged. The course may be taken four times for credit provided that a different level is taken each time.

MUP 427 Advanced World Music Ensemble 1 Unit

Prerequisite: MUP 426 with a grade of "C" or better
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
This course explores advanced performance techniques 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, musical backgrounds, and competence. Performance is not required, but is encouraged. The course may be taken four times for credit provided that a different level is taken each time.

MUP 495 Independent Studies in Music Performance 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members, and students. Independent Studies in Music Performance offers students a chance to do research that is more typical of students in advanced performance courses.

MUP 499 Experimental Offering in Music Performance .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Specializations in Music (MUSM)

MUSM 110 The Business of Music 3 Units

Prerequisite: ENGWR 50 with a grade of "C" or better; or placement through the assessment process.
Hours: 54 hours LEC
This course presents an overview of the many aspects of today's music industry, including copyrights, music publishing, recording artist contracts, royalties, advances, licensing music for movies and television, artist management, talent agents, touring, merchandising, producers and other personnel, band membership and issues, and contracts and riders.

MUSM 115 The Development and Management of an Independent Record Label 3 Units

Prerequisite: MUSM 110 with a grade of "C" or better
Hours: 54 hours LEC
This course provides students with a detailed study of the creation and day-to-day management of a music company to release their own music or the music of others. Topics include: locating talent, staffing, budgets, contracts, record-keeping, CD production and packaging, legalities and copyright issues, departments of a record label, developing marketing strategies and schedules, publicity, promotion, channels of distribution, working with vendors and suppliers, and understanding today's music consumer. This course may be taken two times for credit, provided different topics are taken.

MUSM 116 Legal Aspects Of The Music Industry 3 Units

Prerequisite: None
Hours: 54 hours LEC
This course course covers the following legal issues involved with the Music Industry: Fair Use, First Use, joint works, copyright, trademarks and service marks, music publishing, licensing, recording agreements, contracts, ownership of master recordings, grants of rights, webcasting, and work-for-hire.

MUSM 306 Live Sound Reinforcement 3 Units

Prerequisite: ENGWR 50 with a grade of "C" or better; or placement through the assessment process.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
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, such as recording and performance, manufacturing, wholesaling, retailing, publishing, copyrighting, agents and managers, songwriting, arranging, producing, critiquing, promotion, and education.

MUSM 320 Contemporary Songwriting 3 Units

Prerequisite: ENGWR 50 with a grade of "C" or better; or placement through the assessment process.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: MUSM 320 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LEC
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: None
Advisory: MUHFL 401 with a grade of "C" or better or placement through the assessment process.
Course Transferable to CSU
Hours: 54 hours LEC
This course is an introduction to 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

Prerequisite: None
Advisory: MUFHL 320 or MUIVI 345 with a grade "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 36 hours LAB
This in an introductory 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 Intermediate MIDI: Musical Instrument Digital Interface 2.5 Units

Prerequisite: MUSM 330 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 36 hours LAB
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 recordings in various styles of music.

MUSM 336 Music Project Studio 1 Unit

Prerequisite: MUSM 331 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LAB
This is a lab course for students who have completed MUSM 331, Intermediate MIDI, and who want to work on a creative project independently. A typical project could include completing a demo recording utilizing the MIDI and audio resources at the college. Students would work independently, but confer with faculty during the course of the project and present their final work at the end of the semester for critique and evaluation. This course may be taken twice for credit.

MUSM 340 Introduction To Desktop Audio 1 Unit

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC; 18 hours LAB
This course covers basic audio techniques used at computer workstations for the creation of music and dialog soundtracks for film, multimedia, and the internet. Some of the areas covered include acoustics, microphone techniques, desktop multimedia, and internet and desktop video presentations.

MUSM 342 Recording Studio Techniques 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 with a grade of "C" or better or placement through the assessment process.
General Education: CSU Area C1
Course Transferable to CSU
Hours: 54 hours LEC
This course is an introduction to audio engineering in the recording studio including multi-track recording, microphone selection and use, mixing console, signal processing, and four-track demo production. MUSM 342 is the first semester course in the audio production degree program.

MUSM 344 Recording Studio Techniques 3 Units

Prerequisite: MUSM 306 or 342 with a grade of "C" or better
General Education: CSU Area C1
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 measurement are covered. Students have the opportunity to engineer live studio recording sessions during class.

MUSM 350 Recording Studio Techniques 3 Units

Prerequisite: MUSM 344 with a grade of "C" or better
Corequisite: MUSM 354
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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 351 Analog Recording Consoles and Tape Machines 1.5 Units

Prerequisite: MUSM 344 with a grade of "C" or better
Corequisite: MUSM 354
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
This is a lecture/lab course in 24-track analog recording studio equipment and operation. Topics of study will include the operation of equipment used in the SCC A-225 Control Room including the Otari Series 54 Recording Console and the Otari MX-80 24-track analog tape recorder. Proper operation of this equipment in a professional work environment will be emphasized.

MUSM 354 Recording Sessions Workshop 1.5 Units

Prerequisite: MUSM 344 with a grade of "C" or better
Corequisite: MUSM 350 or 351
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
This course provides practical hands-on recording session experience in many styles of music for second-year audio 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 may be taken four times for credit, provided different topics are taken. This course must be taken twice to fulfill degree and certificate requirements.

MUSM 355 Advanced Microphone Techniques and Analog Session Outboard Gear 1.5 Units

Prerequisite: MUSM 344 with a grade of "C" or better
Corequisite: MUSM 354
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
MUSM 355 offers the student a wide ranging discussion of microphone techniques used in a variety of recording sessions. In conjunction with examining microphone techniques, the course will explore the use of outboard equipment, such as limiters, compressors, and equalizers in the context of the studio recording session.

MUSM 356 Pro Tools 101, Introduction to Pro Tools 1.5 Units

Prerequisite: MUSM 342 with a grade of "C" or better
Corequisite: MUSM 344
Course Transferable to CSU
Hours: 27 hours LEC
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 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.

MUSM 357 Pro Tools 110 Intermediate Pro Tools 1.5 Units

Prerequisite: MUSM 342 and 356 with grades of "C" or better
Corequisite: MUSM 344
Course Transferable to CSU
Hours: 27 hours LEC
This course offers intermediate level instruction in the skills needed to operate Digidesign's Pro Tools LE digital audio workstation hardware and software applications. This course trains students in recording, editing and mixing audio, and MIDI within the Pro Tools environment. It is conducted in the Music Department's Mac computer lab.

MUSM 362 Studio Mixdown Techniques 1.5 Units

Prerequisite: MUSM 350 and 354 with grades of "C" or better
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
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.

MUSM 366 Pro Tools 201, Advanced Pro Tools 1.5 Units

Prerequisite: MUSM 350, 354, and 357 with grades of "C" or better
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
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 357
Course Transferable to CSU
Hours: 22 hours LEC; 15 hours LAB
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.

MUSM 368 Advanced Audio Lab - Independent Project **1 Unit**

Prerequisite: MUSM 366 with a grade of "C" or better
Course Transferable to CSU
Hours: 54 hours LAB
This is a lab course for students who have completed MUSM 366 - Pro Tools 201, Advanced Pro Tools, and who want to work on a creative project independently. A typical project could include completing a demo recording utilizing the audio resources at the the college. Students would work independently but confer with faculty during the course of the project and present their final work at the end of the semester for critique and evaluation. This course may be taken twice for credit.

MUSM 494 Topics in Music Specializations in Music **.5-4 Units**

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
This course is designed to give students an opportunity to study a variety of topics dealing with performance and or Musicology. Selected topics would not include current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

MUSM 495 Independent Studies in Music Specializations in Music **1-3 Units**

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members, and students. Independent Studies in Music Specializations offers students a chance to do research that is more typical of students in advanced audio production, song-writing, arranging, or music business courses.

MUSM 498 Work Experience in Music Specializations in Music **1-4 Units**

Prerequisite: None
Course Transferable to CSU
Hours: 72 hours LEC
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.

MUSM 499 Experimental Offering in Music Specializations in Music **.5-4 Units**

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offering

Nursing, Registered NURSE

Associate in Science Degree

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

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.

The program in nursing is a full-time concentrated course of study. In order to ensure academic success and to protect students' health, outside employment is not advisable.

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.

Nursing courses must be taken in sequence.

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.

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 towards 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.

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.

Enrollment Eligibility
Completion of BIOL 430 and BIOL 431 (Anatomy and Physiology) and BIOL 440 (Microbiology) with grades of "C" or better and a cumulative GPA of 3.0 or better.

Completion of NUTRI 300 (Nutrition) or FCS 340, FCS 324/PSYC 370 (Human Development: A Life Span), PSYC 300 (General Principles), and ENGWR 300 (College Composition) with grades of "C" or better and a cumulative GPA of 2.5 or better.

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.

*Courses taken for credit/no credit (C/NC) will be calculated into GPA's as a "C" grade.

Graduation from an accredited high school (graduates from outside the United States must have transcripts evaluated by an approved independent agency), or successful completion of General Education Development (GED) or California High School Proficiency Exam (CHSPE). These requirements are defined by the current Nurse Practice Act, Title 16, California Code of Regulations, Section 1412.

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 the posted due date. Enrollment applications and deadlines are available from the Science & Allied Health Division Office (Mohr Hall, Room 18 or 558-2271) or the SCC website at http://www.scc.losrios.edu/~nursing/.
2. Successful completion of the enrollment eligibility requirements places the applicant in the pool of qualified applicants. A computerized random selection process is used to select students to be offered enrollment.
3. All students offered enrollment into the Nursing program will complete the Test of Essential Academic Skills (TEAS) developed by Assessment Technologies Institute, LLC (ATI). A composite score of 67 is required for program enrollment. Additional information is available from the Nursing department or on the SCC Nursing website.
4. Students accepted to the nursing program will be required to complete a physical examination, inoculations, drug screen, background check, and possess a current CPR card and malpractice insurance prior to the start of the semester.

Upon completion of this program, the student will be able to:
- utilize the nursing process with critical thinking skills to meet the patient's basic human needs within organized health care systems in a variety of settings and provide direct and indirect patient care for patients of all ages with significant health problems.
- provide individualized nursing measures to assist patients of all ages in need of rehabilitation including lifestyle changes in the hospital, home, or other community settings.
- apply established standards of care, critical thinking skills, and scientific knowledge when performing nursing functions and procedures.
- maintain a therapeutic communication process essential to the achievement of health related patient and/or organizational goals.
- demonstrate the ability to accurately and succinctly report and document patient assessments, interventions, outcomes of care, and new/unusual circumstances.
- act as a patient advocate and teacher in assisting patients and families to prevent illness, attain wellness, and maintain their optimum level of functioning and health.
- utilize leadership concepts to function as a manager of nursing care for a group of patients, delegating tasks, and supervising skills of health team members consistent with job description guidelines.
- determine patient care priorities, using critical thinking and time management skills to organize and provide nursing care for a group of patients with significant health or illness problems.
- apply knowledge of cultural patterns, beliefs, and practices in providing culturally sensitive, competent care.
- identify his/her own learning needs and use opportunities and resources for ongoing professional development, maintaining theoretical and technical competency.
- function with accountability within the ethical and legal boundaries and standards of registered nursing practice.
- objectively assess own strengths and weaknesses needing further development for accurate, safe provision of standards of registered nursing practice.

Nursing, Registered
Associate in Science Degree

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
Third Semester -	
NURSE 425, Nursing Complex Health Problems Through the Life Cycle	11
Fourth Semester -	
NURSE 435, Complex and Multiple Patient Care	10
NURSE 445, Clinical Seminar	0.5

General Education and Science Courses Required for the Nursing Program	**Units**
ENGWR 300, College Composition	3
COMM 301, Introduction to Public Speaking (3)	3
or COMM 331, Group Discussion (3)	
PSYC 300, General Principles	3
SOC 300, Introductory Sociology (3)	3
or ANTH 310, Cultural Anthropology (3)	
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
BIOL 440, General Microbiology	4
FCS 324, Human Development: A Life Span (3)	3
or PSYC 370 Human Development: A Life Span (3)	
NUTRI 300, Nutrition (3)	3
or FCS 340, Nutrition (3)	
Total Program Units	**75**

Associate in Science (A.S.) Degree
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. See SCC graduation requirements.

Nursing, Registered (NURSE)

NURSE 299 Experimental Offering in Nursing .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

NURSE 305 Transition to Associate Degree Nursing 4 Units

Prerequisite: Completion of 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.
Enrollment Limitation: Student must have completed Registered (Associated Degree) Nursing program application enrollment process before they are eligible to enroll in nursing courses. Student must possess a current California license as a Licensed Vocational Nurse.
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
This bridge course is designed for the California Licensed Vocational Nurse (LVN) who is admitted for advanced placement into the second year of the Associate Degree Nursing Program. Critical thinking skills necessary for successful role transition are emphasized throughout the course. Topics include care of adult and geriatric clients with specific medical-surgical nursing disorders, assessment skills, pharmacology, nursing process, theory-based nursing practice, legal/ethical issues, cultural and ethnic diversity, and the educator role of the Registered Nurse (RN). Concurrent acute care hospital laboratory experience emphasizes critical thinking, problem solving, decision making, and implementing nursing theory in clinical practice.

NURSE 315 Pharmacology and Implications for Nursing 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
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 370 Focused Learning in the Associate Degree Nursing Program 1-1.5 Units

Prerequisite: See enrollment limitations.
Corequisite: NURSE 405 (Fundamentals of Health and Nursing Care), or NURSE 415 (Nursing and Health Maintenance through Adult Years), or NURSE 425 (Nursing Complex Health Problems throughout the Life Cycle), or NURSE 435 (Complex and Multiple Patient Care).
Enrollment Limitation: Acceptance into the Registered (Associate Degree) Nursing Program.
Course Transferable to CSU
Hours: 6 hours LEC; 63 hours LAB
This course offers strategies to enhance student success in each of the four semesters of the Registered (Associate Degree) Nursing program and in the National Licensure Examination for Nurses after graduation. This course assesses personal aptitudes, learning styles, strengths and weaknesses in written and verbal communication, and potential barriers to successful completion of the nursing program. The course includes the development of personal and professional support systems and development of a purposeful analytic process that results in reasoned decisions and judgments as a healthcare professional. The goal will be to level focused learning from simple to complex as students advance through the nursing program. Course content will address the specific needs of the student as they adapt to clinical, theory and evaluation methods required in the nursing classes and includes evaluation of mastery of the concurrent Registered (Associate Degree) Nursing course objectives and remediation before the final examination. This course utilizes Regional Health Occupations Resource Centers (RHORC) Student Success materials and Assessment Technologies Institute (ATI) teaching materials that supplement and review the Associate Degree content. This course may be taken four times for credit for a maximum of six units.

NURSE 380 Preparing for a Nursing Career 1 Unit

Prerequisite: ENGWR 100 and MATH 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 18 hours LEC
This course presents the role of the Registered Nurse (RN) and the Licensed Vocational Nurse (LVN) 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

Prerequisite: See Enrollment Limitations.
Enrollment Limitation: Acceptance into the Registered (Associate Degree) Nursing Program and Completion of BIOL 430, 431 and 440 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.
Course Transferable to CSU
Hours: 72 hours LEC; 351 hours LAB
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 Year 11 Units

Prerequisite: NURSE 405 and COMM 301 or COMM 331 with grades of "C" or better.
Enrollment Limitation: Enrollment in Associate Degree Nursing (Registered Nursing) program.
Course Transferable to CSU
Hours: 90 hours LEC; 324 hours LAB
This course presents theory and practice related to helping patients cope with the physiological stressors commonly encountered in the adult years. Content focuses on 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 an 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

Prerequisite: NURSE 415 with a grade of "C" or better; Completion of SOC 300 or ANTH 310 with a grade of "C" or better.
Enrollment Limitation: Enrollment in Associate Degree Nursing (Registered Nursing) program
Course Transferable to CSU
Hours: 90 hours LEC; 324 hours LAB
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

Prerequisite: NURSE 425 with a grade of "C" or better
Corequisite: NURSE 445
Enrollment Limitation: Enrollment in the Associate Degree Nursing (Registered Nursing) program
Course Transferable to CSU
Hours: 72 hours LEC; 324 hours LAB
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, and 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

Prerequisite: NURSE 425 with a grade of "C" or better
Corequisite: NURSE 435
Enrollment Limitation: Enrollment in the Associate Degree Nursing (Registered Nursing) program
Course Transferable to CSU
Hours: 27 hours LAB
This course is designed to provide supplemental clinical information related to current nursing practice and health care issues.

NURSE 495 Independent Studies in Nursing 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Independent Studies

NURSE 499 Experimental Offering in Nursing .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 63 hours LAB
See Experimental Offering

NURSE 1000 NCLEX-RN Review 1-3 Units

Prerequisite: NURSE 425 with a grade of "C" or better
Corequisite: NURSE 435
Hours: 27 hours LEC; 81 hours LAB
This course prepares the student to take the NCLEX-RN (National Council Licensure Examination-Registered Nurse). Coursework includes computer test-taking skills, barriers to success, identification of knowledge deficits via a standardized assessment test, and overview of NCLEX-RN content areas. In the classroom, students may earn .5 unit of credit for every 9 hours. In the lab, students implement an individualized study plan and may earn .5 unit of credit for every 27 hours of work. This course is designed to be taken during the last semester of an RN program or after completion of a nursing program. The course is designed for first-time and repeat test takers. This course is graded as Pass/No Pass.

Nursing, Vocational VN

Associate in Science Degree

Certificate of Achievement

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

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 the expenses as regularly enrolled students - tuition, living costs, activity fees and books - vocational nursing students have the expense of uniforms, professional liability insurance, physical examination, required imunizations, a criminal background check, a drug screen, 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.

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.

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.

Enrollment Eligibility
- Completion of BIOL 100 (Introduction to Concepts of Human Anatomy and Physiology) with a GPA of 3.0.
- Completion of FCS 324/PSYC 370 (Human Development: A Life Span), and NUTRI 300 (Nutrition) or FCS 340, and AH 110 (Medical Language for Health-Care Providers) with a grade of "C" or better and 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 with a grade of "C" or better, or eligibility for ENGRD 110 as determined by the reading assessment process for all applicants who do not have an Associate degree or higher.
- Be a high school graduate or pass the GED.
- Courses taken for Pass/No Pass (P/NP) will be calculated into GPA's as a "C" grade.
- 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 clinical performance is "unsatisfactory," the semester grade will be "F" regardless of achievement in theory.
- The Board of Vocational Nursing and Psychiatric Technicians requires that the student be a high school graduate or pass the GED.
- Admission, Reentry or Transfer: Contact the Director of Vocational Nursing, Sacramento City College, 3835 Freeport Boulevard, Sacramento, CA 95822 or call (916) 558-2271.

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 the posted due date. Enrollment applications and deadlines are available from the Science & Allied Health Division Office (Mohr Hall, Room 18 or 558-2271) or the SCC website at http://www.scc.losrios.edu/~nursing/.
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.

Nursing, Vocational

Associate in Science Degree
Certificate of Achievement

NOTE: Vocational Nursing courses must be taken in sequence.

Upon completion of this program, the student will be able to:

- utilize the nursing process within organized health care systems to help patients with common illnesses meet their basic human needs through direct patient care services.
- apply scientific principles in competently performing common nursing measures and procedures.
- communicate effectively with patients and coworkers to assist in the achievement of health related problems and/or organizational goals.
- act as a teacher in providing information related to the activities of daily living and health practices for patients with common illnesses.
- organize care for a group of patients and participate in providing direction for personnel with less preparation or experience in other than acute care settings.
- assume responsibility for his/her own professional development and function with accountability within the legal boundaries of licensed vocational nursing practice.

Prerequisite Courses	**Units**
BIOL 100, Introduction to Concepts of Human Anatomy and Physiology	3
AH 110, Medical Language for Health-Care Providers	3
FCS 324, Human Development: A Life Span (3) or PSYC 370, Human Development: A Life Span (3)	3
FCS 340, Nutrition (3) or NUTRI 300, Nutrition (3)	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
PSYC 300, General Principles	3
Subtotal Units	**41**
Total Units Required	**53**

Associate in Science (A.S.) Degree
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.

Certificate of Achievement
The Certificate of Achievement 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 120 Meeting Adult Basic Health Needs 14 Units

Prerequisite: See Enrollment Limitations
Enrollment Limitation: BIOL 100 with a grade of "B" or better; 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. ENGRD 11 with a grade of "C" or better or placement through the assessment process if applicant does not have an AA Degree or higher; and, acceptance into the Vocational Nursing Program.
Hours: 144 hours LEC; 324 hours LAB
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

Prerequisite: VN 120 with a grade of "C" or better
Enrollment Limitation: Enrollment in the Vocational Nursing program
Hours: 108 hours LEC; 324 hours LAB
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 of the patient. Focus is also directed at enhancing contribution of data to the care plans under the supervision of the Registered Nurse. 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

Prerequisite: VN 130 with a grade of "C" or better
Corequisite: PSYC 300
Enrollment Limitation: Enrollment in the Vocational Nursing program
Hours: 108 hours LEC; 324 hours LAB
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 understanding all steps of the nursing process and identifying the role of the Vocational Nurse related to 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

Prerequisite: VN 130 or NURSE 415 with a grade of "C" or better or equivalent courses (completion of two semesters of nursing).
Hours: 27 hours LEC; 9 hours LAB
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.

VN 295 Independent Studies in Nursing, Vocational 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

VN 299 Experimental Offering in Vocational Nursing .5-4 Units

Prerequisite: None
Hours: 90 hours LEC
See Experimental Offerings

Nutrition and Foods NUTRI

Associate in Science Degree

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Nutrition
Associate in Science Degree

Program Information
Sacramento City College's Family and Consumer Science Department offers a rigorous nutrition degree program that is broad enough to prepare the student for further study in a variety of nutrition areas including: nutrition science research, food science and technology, dietetics, industry and many other exciting nutrition-related fields.

It is important to note that each four-year College/ University has slightly different requirements for transfer so it is critical for students interested in this major to map out their academic plan with a counselor.

Upon completion of this program, the student will be able to:
- demonstrate independent learning and effective communication skills.
- explain the principles of nutrition and its affects on health.
- assess the various sources of nutrition information and demonstrate where to find reliable nutrition information.
- analyze a diet for adequacy, balance and moderation.

demonstrate an understanding of the relationships between chemistry, biology and nutrition.

Required Program	**Units**
NUTRI 300 Nutrition (3)	3
or FCS 340 Nutrition (3)	
or NUTRI 480 Nutrition Honors (3)	
or FCS 480 Nutrition Honors (3)	
CHEM 400 General Chemistry	5
STAT 300 Introduction to Probability and Statistics (4)	4
or STAT 480 Introduction to Probability and Statistics - Honors (4)	
Subtotal Units	**12**

CSU Path

BIOL 440 General Microbiology	4
PSYC 300 General Principles (3)	3
or PSYC 480 Honors General Principles (3)	
CSU Path Units	**7**
Total Units	**19**

UC Path

BIOL 402 Cell and Molecular Biology	5
CHEM 420 Organic Chemistry	5
UC Path Units:	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. See SCC graduation requirements. Students planning to transfer should meet with a college counselor to identify required courses and develop an educational plan. It is strongly recommended that students complete the CSUGE or IGETC requirements for transfer.

Sequence of courses: Students may take courses in any order that they choose but CHEM 400 has a prerequisite of CHEM 300 and BIOL 440 (CSU Path) has a prerequisite of CHEM 400. BIOL 402 (UC Path) has a prerequisite of CHEM 400.

Fall yr 1: CSU transfer	**Spring yr 1: CSU transfer**	**Fall yr 2: CSU transfer**	**Spring yr 2: CSU transfer**
NUTRI 300 or NUTRI 480, or FCS 340 or FCS 480 (3 Units)	CHEM 400 (5 Units)	STAT 300 or 480 (4 Units)	BIOL 440 (4 Units)
CHEM 300 (4 Units)	PSYC 300 or 480 (3 units)		
8+ Units of CSUGE	7+ Units of CSUGE	11+ Units of CSUGE	11+ Units of CSUGE
Total: 15 Units	**Total: 15 Units**	**Total: 15 Units**	**Total: 15 Units**
Fall yr 1: UC transfer	**Spring yr 1: UC transfer**	**Fall yr 2: UC transfer**	**Spring yr 2: UC transfer**
NUTRI 300 or NUTRI 480, or FCS 340 or FCS 480 (3 Units)	CHEM 400 (5 Units)	STAT 300 or 480 (4 Units)	BIOL 402 (5 Units)
CHEM 300 (4 Units)		CHEM 420 (5 Units)	
8+ Units of CSUGE	10+ Units of CSUGE	6+ Units of CSUGE	10+ Units of CSUGE
Total: 15 Units	**Total: 15 Units**	**Total: 15 Units**	**Total: 15 Units**

NUTRI 300 Nutrition 3 Units

Same As: FCS 340
Prerequisite: None
Advisory: ESLR 320 and ESLW 320 or ESL 114; and MATH 34; with grades of "C" or better.
General Education: AA/AS Area III(b); AA/AS Area IV
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 assess their own nutritional health.

NUTRI 302 Nutrition for Physical Performance 3 Units

Same As: PET 418
Prerequisite: None
General Education: AA/AS Area III(b); CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
This course will explore nutrition and fitness with emphasis on the relationship between nutrition, physical activity, lifelong fitness, and health.

NUTRI 310 Cultural Foods of the World 3 Units

Same As: FCS 342
Prerequisite: None
Advisory: ENGWR 50 and ENGRD 110; or ESLW 320 and ESLR 320; and MATH 34 with grades of "C" or better
General Education: AA/AS Area IV
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

NUTRI 320 Children's Health, Safety and Nutrition 3 Units

Same As: ECE 415 and FCS 346
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and LIBR 318; and MATH 34; and ECE 410 or HEED 330; and FCS 312 or ECE 312; and FCS 314 or ECE 314 or SOC 312; and NUTRI 300 with grades of "C" or better
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
The key components that ensure the health, safety, and nutrition of both children and staff will be identified along with the importance of collaboration with families and health professionals. Students will be introduced to early childhood curriculum, regulations, standards, policies, and procedures related to child health, safety, and nutrition. Course emphasis is placed on integrating and maintaining the optimal health, safety, and nutritional concepts in everyday planning and program development for all children. Projects related to health, safety, and nutrition education as well as optional field trips may be included as part of the curriculum. (Students may receive credit for exactly one of the following: ECE 415, FCS 346, or NUTRI 320.)

NUTRI 330 Food Theory and Preparation 4 Units

Prerequisite: None
Advisory: ENGWR 50 and MATH 27 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This course provides a comprehensive study of food ingredients and the basic principles and techniques involved in food preparation. It will also examine the factors that influence foods and the changes that occur in foods during preparation. The laboratory emphasizes basic cooking skills and theory applications. The emphasis in this course is on the reasons for procedures and phenomena and the prevention and/or correction of cooking failures.

NUTRI 480 Nutrition Honors 3 Units

Same As: FCS 480
Prerequisite: None
General Education: AA/AS Area III(b); AA/AS Area IV
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This is an enriched study of nutrition for honors students. The course uses a seminar model to study nutrients and their physiological functions. Current issues such as: food safety, vegetarian diets, world hunger, trans-fats, and vitamin/mineral supplementation are examined. Students analyze and evaluate their diet using diet analysis software. Scientific research methods are studied in journal articles for weekly discussions. Debates encourage critical thinking from opposing points of view. Students will research and present portions of the course material. This Honors section uses an intensive instructional methodology designed to challenge motivated students.

NUTRI 499 Experimental Offering in Nutrition and Foods .5-4 Units

Prerequisite: None
Course Transferable to CSU
See Experimental Offerings

Occupational Therapy Assistant OTA

Associate in Science Degree

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

Program Information
An Associate in Science Degree can be obtained by completion of the required Occupational Therapy Assistant program requirements. 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, require 40 hours of fieldwork; OTA 152 requires 20 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, fingerprinting, and drug screens may also be required.

Program Costs
In addition to college enrollment fees, other estimated costs include: books and supplies ($700.00); physical examinations and immunizations ($175.00); malpractice insurance ($40.00); fingerprinting ($150.00); and fee for certification test ($850.00). 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 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.

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, skilled nursing facilities, home health agencies, school systems, psychiatric hospitals, private practice outpatient clinics, and emerging practice areas.

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-AOTA. Graduates of the program will be able to sit for 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. Upon successful completion of the NBCOT Examination, graduates intending to practice in California are required to be certified by the California Board of Occupational Therapy. Additional information about these practice regulations can be found at www.bot.ca.gov, or by contacting the Board at (916) 322-3394.

NOTE: The Occupational Therapy Assistant Program enrolls a new class providing a minimum enrollment of 15 students.

Additional Information
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 program website at http://wserver.scc.losrios.edu/~ota/.

Enrollment Eligibility
To be eligible for enrollment in the program, the student must meet the following criteria:

1. Completion of OTA 100, AH 110, BIOL 100 or BIOL 430 and 431, and PSYC 370 or FCS 324 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses. 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 Associate Degree or higher. BIOL 100 or BIOL 430 and 431, or equivalent courses must be completed within the last 10 years.

Courses taken for Pass/No Pass (P/NP) will be calculated into the student's GPA as a "C" grade.

Enrollment Process
1. Applications for enrollment and official transcripts supporting completion of prerequisite courses must be submitted to the Science & Allied Health Division by the posted due date. Enrollment applications and deadlines are available from the Science & Allied Health Division Office (Mohr Hall, Room 18, or (916) 558-2271) or visit the program website at http://wserver.scc.losrios.edu/~ota/.

2. 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.
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.
4. After all eligible applicants have been offered admission, eligible applicants applying after the posted due date 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.

Upon completion of this program, the student will be able to:

- recognize the theoretical frames of reference from which the practice of occupational therapy is derived.
- define occupational therapy programs and practice as currently organized in health care delivery systems.
- communicate the definition and role of occupational therapy to consumers and other health practitioners.
- perform task analysis.
- perform evaluation procedures selected according to OTA practice guidelines.
- assist in developing occupational therapy intervention plans.
- implement an intervention plan to engage client in purposeful activities related to occupation.
- document factual client data for oral and written communication.
- demonstrate the ability to maintain records and reports including counter-signatures relating to quality assurance and reimbursement.
- revise and implement OT intervention plan in ongoing collaboration with the supervising OT.
- recognize the factors that warrant change or discontinuation of intervention.
- demonstrate awareness of socio-cultural diversity which may influence the therapeutic process.
- demonstrate actions that reflect non-judgmental attitudes and values toward patient/clients, staff and family members in professional situations.
- demonstrate behaviors that respect the client's basic rights to quality service with minimum risk of further injury or insult.
- demonstrate knowledge of managing supplies and equipment necessary for OT intervention.
- adhere to OT department, agency, regulatory and government policies and procedures.
- demonstrate an understanding of the importance research and participate in research projects as directed.
- assume the professional responsibility for self-directed learning as a life long process for acquiring new knowledge, abilities, attitudes, and refining clinical reasoning.

Occupational Therapy Assistant

Associate in Science Degree

Required Program **Units**

OTA 100 Introduction to Occupational Therapy 1
PSYC 370 Human Development: A Life Span (3) 3
or FCS 324 Human Development: A Life Span (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 150 Occupational Therapy Process and Practice in Developmental Disabilities and Pediatric Conditions 2.5
OTA 152 Introduction to Clinical Practice in Pediatric Conditions 5
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 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) 3
or ENGWR 100 College Writing (3)
or ENGWR 480 Honors College Composition (3)
NUTRI 300 Nutrition (3) 3
or NUTRI 480 Nutrition Honors (3)
or FCS 340 Nutrition (3)
or FCS 480 Nutrition Honors (3)
or HEED 300 Health Science (3)
CISC 300 Computer Familiarization 1
PSYC 300 General Principles (3) 3
or PSYC 480 Honors General Principles (3)
SOC 300, Introductory Sociology (3) 3
or SOC 480 Introductory Sociology - Honors (3)
or ANTH 310 Cultural Anthropology (3) 3
or ANTH 481 Honors Cultural Anthropology (3)

Total Units Required **66 - 73**

[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 (A.S.) Degree

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

Prerequisite: None
Hours: 18 hours LEC
This course has been designed to provide the student with information needed to determine if occupational therapy (OT) is a suitable career option. The student is introduced to human occupation as participation in everyday life activities. In addition, the course will address how health, wellness, disease, and disability affect engagement in life tasks, and how OT interventions are used to maximize performance within chosen activities. The role of the Occupational Therapy Assistant (OTA) is defined, with explanation of the history of OT as well as current and emerging practice settings. Professional activities, requirements, ethics, and behaviors are also discussed. An observation in an OT clinic is required.

OTA 110 Functional Biomechanics for the OTA 3 Units

Prerequisite: See enrollment limitations
Corequisite: OTA 111
Advisory: AH 106 with a grade of "C" or better
Enrollment Limitation: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, FCS 324 or PSYC 370 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.
Hours: 54 hours LEC
In this course, the Occupational Therapy Assistant (OTA) student will explore components of human movement, including joint structure and function, muscle action, motor and reflex development, and balance and sensory influence. In addition to the body structures involved in movement, students will examine the motor and process skills, sensory, and neuromusculoskeletal client factors required for engagement in occupation across the lifespan. As well, students will complete a formal biomechanical activity analysis as it relates to occupational performance.

OTA 111 Functional Biomechanics Lab for the OTA 1 Unit

Prerequisite: See enrollment limitations
Corequisite: OTA 110
Advisory: AH 106 with a grade of "C" or better
Enrollment Limitation: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, FCS 324 or PSYC 370, 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.
Hours: 54 hours LAB
In this course, the Occupational Therapy Assistant (OTA) student will use an analysis and problem-solving approach to functional human movement across the lifespan. Through hands-on laboratory activities, students will develop skills in assessment of client factors affecting engagement in occupations. As well, students will explore basic intervention methods and strategies for remediation of and compensation for biomechanical deficits and impairments.

OTA 120 Fundamentals of Occupational Therapy Assistant Practice 3 Units

Prerequisite: OTA 110/111 and ENGWR 100 or ENGWR 300 with grades of "C" or better.
Advisory: AH 106 with a grade of "C" or better
Hours: 54 hours LEC
This course will help the student develop knowledge and understanding of the various contexts in which Occupational Therapy (OT) services are provided. As well, participation in the management of OT services within the scope of the Occupational Therapy Assistant (OTA) is addressed. Included is discussion of the principles of management and systems as they relate to providing OT services to individuals and within organizations. Professional responsibilities are examined, with an emphasis on development of professional attitudes and behaviors.

OTA 121 Contemporary Models of Practice in Occupational Therapy 2 Units

Prerequisite: OTA 131 and 132 with grades of "C" or better
Hours: 36 hours LEC
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 (OTA) student with a foundation of knowledge that will allow the student to pursue practice opportunities in community-based programs. In this course, the student will gain an understanding of the various disciplines involved in community-based programs, the role or potential of OT within these organizations, and funding sources. As well, the student will explore legislative advocacy of OT and community-based services, further developing their professional advocacy skills. The student will perform an analysis of community-based services and resources within their region, identifying the utilization of occupational therapy (OT) within these programs. The student will develop and market educational materials to selected organizations, promoting the potential benefits of OT as an opportunity for program development. Students may be required to participate in field trips as a part of the course.

OTA 131 Occupational Therapy Theory and Process in Psychosocial Dysfunction 5 Units

Prerequisite: OTA 110, 111, AH 106, PSYC 300 (within the last 10 years), and ENGWR 300 or ENGWR 100 with grades of "C" or better.
Corequisite: OTA 132
Hours: 72 hours LEC; 54 hours LAB
This course examines the role of the Occupational Therapy Assistant (OTA) when working with individuals who have mental health conditions and disregulated behaviors. Students will explore areas of occupation, performance skills, performance patterns, contexts, activity demands, and client factors that affect engagement in occupation throughout the lifespan, and how these are influenced by psychosocial factors. Occupational Therapy (OT) process will be addressed, to include an understanding of an occupational profile, analysis of occupational performance, intervention planning and implementation, and methods to elicit therapeutic outcomes. Students will also develop skills in activity analysis, and the use of professional literature and resources, as well as an awareness of the theoretical models that influence clinical decision-making.

OTA 132 Introduction to Clinical Practice in Psychosocial Dysfunction 1 Unit

Prerequisite: OTA 110, 111, AH 106, PSYC 300 (within the last 10 years) and ENGWR 300 or ENGWR 100 with grades of "C" or better.
Corequisite: OTA 131
Hours: 54 hours LAB
Through Level I Fieldwork experiences, students will be introduced to clinical practice for individuals with mental health conditions and disregulated behaviors that limit or affect engagement in occupation. As participant observers, students will integrate academic experiences with Occupational Therapy (OT) process in settings serving clients with a variety of psychosocial challenges and degrees of disability. Through interactions with clients and staff, students will develop skills in observation of occupational performance, clinical safety, therapeutic communication and clinical relationships, professional behavior and boundary-setting, and the self-awareness necessary to be a successful OT practitioner. Students will be required to complete 40 hours of clinical fieldwork and attend 14 hours of on-campus discussion group. This course is graded Pass/No Pass. Note: Fieldwork sites may require completion of a physical examination, immunizations, a TB test and/or current CPR certification for health personnel (level C). Background checks, fingerprinting, and drug screens may also be required. Proof of automobile insurance may be required if driving is involved.

OTA 140 Theoretical Foundations of Physical Dysfunction 3 Units

Prerequisite: OTA 120 with a grade of "C" or better
Corequisite: OTA 141 and 142
Hours: 54 hours LEC
This course introduces the Occupational Therapy Assistant (OTA) student to neurological, orthopedic, and medical conditions that result in physical disabilities. Students will explore areas of occupation, performance skills, performance patterns, contexts, activity demands, and client factors that affect engagement in occupation throughout the lifespan, and how these are influenced by physical dysfunction. Students will also develop skills in the use of professional literature and resources, as well as an awareness of the theoretical models that influence clinical decision-making.

OTA 141 Occupational Therapy Process in Physical Dysfunction 4 Units

Prerequisite: OTA 131 and 132 with grades of "C" or better
Corequisite: OTA 140 and 142
Hours: 54 hours LEC; 54 hours LAB
This course examines the role of the Occupational Therapy Assistant (OTA) when working with individuals who have orthopedic, neurological, or medical conditions. Occupational Therapy (OT) process will be addressed, to include an understanding of an occupational profile, analysis of occupational performance, as well as intervention planning, implementation, and approaches. Students will also develop skills in selected assessments, clinical documentation, and the selection and use of therapeutic activities and media to elicit engagement in occupation and therapeutic outcomes.

OTA 142 Introduction to Clinical Practice in Physical Dysfunction 1 Unit

Prerequisite: OTA 131 and 132 with grades of "C" or better
Corequisite: OTA 141
Hours: 54 hours LAB
Through Level I Fieldwork experiences, students will be introduced to clinical practice for individuals with physical disabilities that limit or affect engagement in occupation. As participant observers, students will integrate academic experiences with Occupational Therapy (OT) process in settings serving clients with a variety of physical challenges and degrees of disability. Through interactions with clients and staff, students will develop skills in observation of occupational performance, clinical safety, therapeutic communication and clinical relationships, professional behavior and boundary-setting, and the self-awareness necessary to be a successful OT practitioner. Students will be required to complete 40 hours of clinical fieldwork and attend 14 hours of on-campus discussion group. This course is graded Pass/No Pass. Note: Fieldwork sites may require completion of a physical examination, immunizations, a TB test and/or current CPR certification for health personnel (level C). Background checks, fingerprinting, and drug screens may also be required. Proof of automobile insurance may be required if driving is involved.

OTA 150 Occupational Therapy Process and Practice in Developmental Disabilities and Pediatric Conditions 2.5 Units

Prerequisite: See enrollment limitations
Corequisite: OTA 152
Enrollment Limitation: Enrollment in the Occupational Therapy Assistant Program and completion of BIO 100, OTA 100, AH 110, FCS 324 or PSYC 370 with grades "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.
Hours: 36 hours LEC; 27 hours LAB
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.

OTA 152 Introduction to Clinical Practice in Pediatric Conditions .5 Unit

Prerequisite: See enrollment limitiations
Corequisite: OTA 150
Enrollment Limitation: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, FCS 324 or PSYC 370, 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.
Hours: 27 hours LAB
Through Level I Fieldwork experiences, students will be introduced to clinical practice for individuals with pediatric or developmental conditions that limit or affect engagement in occupation. As participant observers, students will integrate academic experiences with Occupational Therapy (OT) process in settings serving clients with a variety of occupational challenges and degrees of disability. Through interactions with clients and staff, students will develop skills in observation of occupational performance, clinical safety, therapeutic communication and clinical relationships, professional behavior and boundary-setting, and the self-awareness necessary to be a successful OT practitioner. Students will be required to complete 20 hours of clinical fieldwork and attend 7 hours of on-campus discussion group. This course is graded Pass/No Pass. Note: Fieldwork sites may require completion of a physical examination, immunizations, a TB test and/or current CPR certification for health personnel (level C). Background checks, fingerprinting, and drug screens may also be required. Proof of automobile insurance may be required if driving is involved.

OTA 160 Field Work Level II for the Occupational Therapy Assistant 6 Units

Prerequisite: OTA 131 and 132 with grades of "C" or better
Hours: 360 hours LAB
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 two distinctly different clinical settings for OTA 160 and OTA 161 in order to experience a broad range of clinical expectations and scenarios, while progressively refining and advancing skills from one course to the next. Fieldwork sites are assigned by the fieldwork coordinator. Regularly scheduled seminars with the academic instructor and peers, in which attendance is mandatory, are included as a part of the 360 hours. This course is graded Pass/No Pass. Note: Fieldwork sites may require completion of a physical examination, immunizations, a TB test and/or current CPR certification for health personnel (level C). Background checks, fingerprinting, and drug screens may also be required. Proof of automobile insurance may be required if driving is involved.

OTA 161 Field Work Level II for the Occupational Therapy Assistant 6 Units

Prerequisite: OTA 121, 141, and 142 with grades of "C" or better
Hours: 360 hours LAB
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 two distinctly different clinical settings for OTA 160 and OTA 161 in order to experience a broad range of clinical expectations and scenarios, while progressively refining and advancing skills from one course to the next. Fieldwork sites are assigned by the fieldwork coordinator. Regularly scheduled seminars with the academic instructor and peers, in which attendance is mandatory, are included as a part of the 360 hours. This course is graded Pass/No Pass. Note: Fieldwork sites may require completion of a physical examination, immunizations, a TB test and/or current CPR certification for health personnel (level C). Background checks, fingerprinting, and drug screens may also be required. Proof of automobile insurance may be required if driving is involved.

OTA 295 Independent Studies in Occupational Therapy Assistant 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
This course allows an individual student to study, research, and participate in clinical or community activities beyond the scope of regularly offered classes, pursuant to an agreement among the college, faculty members, and the student.

OTA 299 Experimental Offering in Occupational Therapy Assistant .5-4 Units

Prerequisite: None
Hours: 72 hours LEC
This is an experimental course offering designed to provide students with coursework not normally offered by the Occupational Therapy Assistant Program. Course topics will be structured around new and emerging issues related to the field of occupational therapy.

Philosophy PHIL

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Program Information
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

Prerequisite: None
Advisory: ENGWR 100 with a grade of "C" or better, or by the assessment process.
General Education: AA/AS Area II(b); AA/AS Area I; CSU Area A3; CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 310 Introduction to Ethics 3 Units

Prerequisite: None
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

PHIL 320 Logic and Critical Reasoning 3 Units

Prerequisite: None
General Education: AA/AS Area II(b); CSU Area A3
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 II(b); CSU Area A3; IGETC Area 1B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGWR 100 with a grade of "C" or better, or placement by the assessment process.
General Education: AA/AS Area II(b); CSU Area A3
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to the nature of deductive systems of logic and their application. Students will learn to evaluate argument forms for validity and soundness. This course is recommended for students of the sciences, computer programming, mathematics, and philosophy.

PHIL 330 History of Classical Philosophy 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 100 with a "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a study of the origin and development of Western philosophy from the period of the ancient Greeks and Romans. The course is recommended for all philosophy, history, and humanities majors.

PHIL 331 History of Modern Philosophy 3 Units

Prerequisite: None
Advisory: ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area I; CSU Area C; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a study of the development of Western philosophy from the period the Renaissance through the period of modern Europe and America. 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 I; CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 with a "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is recommended for students interested in an introduction to philosophy with a focus on existential concerns, such as alienation, authenticity, anxiety, and on problems in the philosophy of mind and language, such as the structure of consciousness and the meaning of "meaning" and language games.

PHIL 352 Introduction to World Religions 3 Units

Prerequisite: None
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGWR 100 with a grade "C" or better
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to the major religions of the Far East: Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, Shintoism, and Sufism. 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 354 Religions of the West 3 Units

Prerequisite: None
Advisory: ENGWR 300
General Education: AA/AS Area I; CSU Area C2
Course Transferable to UC/CSU
Hours: 54 hours LEC
Study of the origins, history, development, important teachings, mythology, and modern forms of the major Western religions–Judaism, Christianity, and Islam. Zoroastrianism, a forerunner of these, will also be examined in detail. In order to clarify concepts and practices, comparison and contrast with other religions will be used as a basis for discussion. The influences of these religions on the Western world will be identified and examined.

PHIL 368 Law, Justice, and Punishment 3 Units

Prerequisite: None
General Education: AA/AS Area V(b); AA/AS Area I; CSU Area C2; CSU Area D8; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B
Enrollment Limitation: Eligibility for the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a study of the origin and development of Western philosophy from the period of the ancient Greeks and Romans. 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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C2; IGETC Area 3B
Enrollment Limitation: Eligibility for the Honors program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course examines, analyzes, and critically evaluates key philosophical works from Descartes to Kant. In addition, this honors course uses an intensive instructional methodology designed to challenge motivated students.

PHIL 482 Law, Justice, and Punishment - Honors 3 Units

Prerequisite: None
General Education: AA/AS Area V(b); AA/AS Area I; CSU Area C2; CSU Area D8; IGETC Area 3B
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 495 Independent Studies in Philosophy 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

PHIL 499 Experimental Offering in Philosophy .5-4 Units

Prerequisite: None
Advisory: Eligibility for ENGWR 300; one or more courses in philosophy with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 54 hours LEC
Experimental offerings in Philosophy 499 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

Certificate of Achievement

Certificate of Completion

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Photography, Degree and Certificate of Achievement

Commercial Photography, Certificate of Achievement

Digital Photography, Certificate of Achievement

Fine Art Photography, Certificate of Achievement

Photojournalism, Certificate of Achievement

Portrait and Wedding Photography, Certificate of Achievement

Stock Photography, Certificate of Achievement

Photography
Associate of Arts Degree

Program Information
The Photography Program provides students the opportunity to prepare for entry level positions as a press photographer, photojournalist, portrait photographer, freelance photographer, editorial photographer, photo-lab technician, and other career fields that utilize photography techniques or for students that wish to pursue transfer to a university program to further their study of photography.

Career Opportunities
The Photography Program gives students the opportunity to prepare for entry level positions as a press photographer, photojournalist, portrait photographer, photo-lab technician, and other career fields that utilize photography techniques.

Recommended High School Preparation
Students should take 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.

Upon completion of this program, the student will be able to:
- describe technical and aesthetic qualities of successful photographs.
- produce photographs using various camera, film and digital methods.
- demonstrate a thorough knowledge of current computer software and digital imaging skills as they apply to photography.
- produce photographs using photographic papers and various digital output.
- describe successful working relationships with clients and subjects.
- survey history, careers, styles and trends in professional photography.
- operate multiple camera formats and techniques.
- execute a wide range of darkroom techniques and processes.
- develop pre-production shoot and planning methods.
- execute shoot production in both the studio and on location.
- demonstrate post production technical and creative solutions.
- develop a marketing plan, materials, and support process.
- develop a small business plan and organizational structure.

Required Program for the Degree	Units
PHOTO 301 Beginning Photography (3)	3
or PHOTO 302 Beginning Digital Photography (3)	
PHOTO 310 Intermediate Photography (3)	3
or PHOTO 312 Intermediate Digital Photography (3)	
PHOTO 364 Advanced Black and White Photography (3)	3
or PHOTO 410 Advanced Digital Imaging (3)	
PHOTO 370 Portraiture and Wedding Photography (3)	3
or PHOTO 390 Studio Lighting Techniques (3)	
PHOTO 350 Photojournalism	3-4
PHOTO 380 Multimedia Capture I	3
PHOTO 340 Careers in Photography	3
PHOTO 210 Photography Business	3
PHOTO 280 Portfolio Development	2-4
Total Units Required	**26-29**

Suggested Electives
ART 300, BUS 300, ENGWR 100, ENGWR 384, GCOM 101, 300; JOUR 300, 402; PHOTO 271, 352, 372, 375, 390, 392, 395, 401, 415, 490.

Associate in Arts (A.A.) Degree
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 Achievement

Program Information
The Photography Certificate provides the students the opportunity to fully prepare themselves for entry-level positions in this field. Students will be required to obtain lab/studio training in both 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.

The Photography Program provides students the opportunity to prepare for entry level positions as a press photographer, photojournalist, portrait and wedding photographer, freelance photographer, editorial photographer, photo-lab technician, and other career fields that utilize photography techniques or for students that wish to pursue transfer to a university program to further their study of photography.

Recommended High School Preparation
Students should take 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.

Upon completion of this program, the student will be able to:
- produce photographs using various camera, film and digital methods.
- demonstrate a thorough knowledge of current computer software and digital imaging skills as they apply to photography.
- produce photographs using photographic papers and various digital output.
- operate multiple camera formats and techniques associated with their use.
- execute a wide range of darkroom/digital darkroom techniques and processes.
- develop a marketing plan, materials, and support process.
- develop a small business plan and organizational structure.

Required Courses	Units
PHOTO 301 Beginning Photography (3)	3
or PHOTO 302 Beginning Digital Photography (3)	
PHOTO 310 Intermediate Photography (3)	3
or PHOTO 312 Intermediate Digital Photography (3)	
PHOTO 280 Portfolio Development	2-4
PHOTO 340 Careers in Photography	3
PHOTO 350 Photojournalism	3-4
PHOTO 370 Portraiture and Wedding Photography	3
PHOTO 210 Photography Business	3
PHOTO 380 Multimedia Capture I	3
Total Units Required	**23-26**

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

Commercial Photography
Certificate of Achievement

Program Information
The Commercial Photography certificate provides the students the opportunity to fully prepare themselves for entry-level positions in this field. Students will be required to obtain lab/studio training in both 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.

The Photography Program provides students the opportunity to prepare for entry level positions as a press photographer, photojournalist, portrait photographer, freelance photographer, editorial photographer, photo-lab technician, and other career fields that utilize photography techniques or for students that wish to pursue transfer to a university program to further their study of photography.

Recommended High School Preparation:
Students should take 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.

Upon completion of this program, the student will be able to:
- operate multiple camera formats and techniques associated with their use.
- demonstrate a thorough knowledge of current computer software and digital imaging skills as they apply to photography.
- execute a wide range of technical and creative lighting solutions.
- develop and expand a personal style with pre-visualization conceptualization skills.
- execute shoot production skills in both the studio and on location.
- develop a small business plan and organizational structure.
- develop a marketing plan, materials, and support process.

Required Program	Units
PHOTO 302 Beginning Digital Photography	3
PHOTO 312 Intermediate Digital Photography	3
PHOTO 410 Advanced Digital Imaging	3
PHOTO 390 Studio Lighting Techniques	3
PHOTO 350 Photojournalism	3-4
PHOTO 380 Multimedia Capture I	3
PHOTO 395 Stock Photography I	3
PHOTO 392 Commercial and Advertising Photography	3
PHOTO 280 Portfolio Development	2-4
Total Units Required	**26-29**

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

Digital Photography
Certificate of Achievement

Program Information
The Digital Photography Certificate provides 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.

The Photography Program provides students the opportunity to prepare for entry level positions as press photographers, photojournalists, portrait photographers, freelance photographers, editorial photographers, photo-lab technicians, and other career fields that utilize photography techniques.

Recommended High School Preparation
Students should take 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. Lab chemicals are provided. If these fees create a financial burden, students should consult the Financial Aid Office for possible assistance.

Upon completion of this program, the student will be able to:
- produce photographs using various camera, film and digital methods.

- produce photographs using photographic papers and various digital output.
- execute a wide range of technical and creative lighting solutions.
- demonstrate an understanding and proficiency in multimedia story telling.
- demonstrate a thorough knowledge of current computer, software and digital imaging skills as they apply to photography.

Required Program	Units
PHOTO 302 Beginning Digital Photography	3
PHOTO 312 Intermediate Digital Photography	3
PHOTO 410 Advanced Digital Imaging	3
PHOTO 380 Multimedia Capture I	3
PHOTO 400 Digital Imaging	3
PHOTO 270 Panorama and QuickTimeVR Photography	3
PHOTO 415 Advanced Digital Photo Restoration and Retouching	3
PHOTO 271 Color Management	1.5
Total Units Required	**22.5**

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

Fine Art Photography
Certificate of Achievement

Program Information
The Fine Art Certificate provides the students the opportunity to fully prepare themselves for an entry-level position in this field. Students will be required to obtain lab/studio training in both 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.

The Photography Program provides students the opportunity to prepare for entry level positions as a press photographer, photojournalist, portrait photographer, freelance photographer, editorial photographer, photo-lab technician, and other career fields that utilize photography techniques or for students that wish to pursue transfer to a university program to further their study of photography.

Recommended High School Preparation
Students should take 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.

Upon completion of this program, the student will be able to:
- describe technical and aesthetic qualities of successful photographs.
- produce a portfolio emphasizing personal creativity and self expression.
- survey history, careers, styles and trends in professional photography.
- execute a wide range of technical and creative lighting solutions.

Required Program	Units
PHOTO 301 Beginning Photography (3) or PHOTO 302 Beginning Digital Photography (3)	3
PHOTO 310 Intermediate Photography (3) or PHOTO 312 Intermediate Digital Photography (3)	3
PHOTO 280 Portfolio Development	2 - 4
PHOTO 340 Careers in Photography	3
A minimum of 12 units from the following:	12
PHOTO 364 Advanced Black and White Photography (3)	
PHOTO 410 Advanced Digital Imaging (3)	
PHOTO 365 Alternative Process Photography (3)	
PHOTO 352 Photographic-Essay (3)	
PHOTO 390 Studio Lighting Techniques (3)	
PHOTO 271 Color Management (1.5)	
PHOTO 270 Panorama and QuickTimeVR Photography (3)	
Total Units Required	**23-25**

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

Photojournalism
Certificate of Achievement

Program Information
The Photojournalism Certificate provides 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.

The Photography Program provides students the opportunity to prepare for entry level positions as a press photographer, photojournalist, portrait photographer, freelance photographer, editorial photographer, photo-lab technician, and other career fields that utilize photography techniques or for students that wish to pursue transfer to a university program to further their study of photography.

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.

Upon completion of this program, the student will be able to:
- describe technical and aesthetic qualities of successful photojournalistic photographs.
- demonstrate a thorough knowledge of current computer software and digital imaging skills as they apply to photography.
- develop and expand a personal style with pre visualization conceptualization skills.
- produce photographs using various digital camera methods.
- create a portfolio and related materials for employment.
- survey history, careers, styles and trends in professional photography.
- execute a wide range of technical and creative lighting solutions.
- demonstrate an understanding and proficiency in multimedia story telling.

Required Program	Units
PHOTO 302 Beginning Digital Photography	3
PHOTO 312 Intermediate Digital Photography	3
A minimum of 9 units from the following:	9
PHOTO 350 Photojournalism (3 - 4)	
PHOTO 352 Photographic-Essay (3)	
PHOTO 380 Multimedia Capture I	3
JOUR 402 College Newspaper Production (3)	3
or JOUR 403 College Magazine Production (3)	
PHOTO 381 Multimedia Capture II (3)	3
or PHOTO 392 Commercial and Advertising Photography (3)	
Total Units Required	**24**

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

Portrait and Wedding Photography
Certificate of Achievement

Program Information
The Portrait and Wedding Certificate provides the students the opportunity to fully prepare themselves for entry level positions in this field. Students will be required to obtain lab/studio training in both 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.

The Photography Program provides students the opportunity to prepare for entry level positions as a press photographer, photojournalist, portrait photographer, freelance photographer, editorial photographer, photo-lab technician, and other career fields that utilize photography techniques or for students that wish to pursue transfer to a university program to further their study of photography.

Recommended High School Preparation
Students should take 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.

Upon completion of this program, the student will be able to:
- develop and expand a personal style with pre visualization conceptualization skills.
- develop a small business plan and organizational structure.
- develop a marketing plan, materials, and support process.
- demonstrate a thorough knowledge of current computer software and digital imaging skills as they apply to photography.
- produce photographs using various camera, film and digital methods.
- produce photographs using photographic papers and various digital output.
- execute a wide range of technical and creative lighting solutions.
- demonstrate post-production technical and creative solutions for wedding packages.
- survey history, careers, styles and trends in professional photography.

Required Program	Units
PHOTO 302 Beginning Digital Photography	3
PHOTO 312 Intermediate Digital Photography	3
PHOTO 375 Fashion-Glamour Photography (3)	3
or PHOTO 372 Advanced Portrait Photography (3)	
PHOTO 340 Careers in Photography	3
PHOTO 390 Studio Lighting Techniques	3
PHOTO 370 Portraiture and Wedding Photography	3
PHOTO 350 Photojournalism	3-4
PHOTO 280 Portfolio Development	2-4
Total Units Required	**23-26**

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

Stock Photography
Certificate of Achievement

Program Information
The stock photography program is designed for students who want to enter a career path in the field of stock photography. The program will explore and introduce students to the creative, technical, and unique business aspects of Stock Photography as they pertain to self promotion and a specialized web presence. Students will learn about getting started in stock photography, defining a creative style, shooting images that sell, working with stock agencies, using Stock Photography specific software, and understanding the stock image enhancement work flow with Adobe Photoshop. Business strategies and self promotion will also be covered.

Upon completion of this program, the student will be able to:
- use a variety of traditional and digital cameras.
- determine the requirements of the day-to-day operations of the stock photographic business.
- define career options in stock photography.
- define business goals and self promotion strategies.
- create a personal portfolio of images that display expertise in stock photography.
- set up strobe lighting and available lighting to effectively illustrate stock photography subjects.

Required Program

PHOTO 301 Beginning Photography (3)	3
or PHOTO 302 Beginning Digital Photography (3)	
PHOTO 310 Intermediate Photography (3)	3
or PHOTO 312 Intermediate Digital Photography (3)	
PHOTO 395 Stock Photography I	3
PHOTO 396 Stock Photography II	3
PHOTO 390 Studio Lighting Techniques	3
PHOTO 340 Careers in Photography	3
PHOTO 350 Photojournalism	3-4
PHOTO 280 Portfolio Development	2-4
Total Units Required	**23 - 26**

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

Photography (PHOTO)

PHOTO 210 Photography Business 3 Units

Prerequisite: None
Hours: 54 hours LEC
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, packaging, product/services pricing, and sales. The student will learn how to prepare, present, and implement a photography business plan.

PHOTO 266 Location Photography 2 Units

Prerequisite: None
Hours: 18 hours LEC; 54 hours LAB
Students will participate in either a landscape or cityscape photography workshop emphasizing a geographic region. The course will include a variety of topics in traditional and digital photography including camera formats, working on location, and pre-production planning of location photography. This course may be taken four times for credit providing a different course topic is taken. Students will be responsible for all of their own photographic expenses, and may incur additional fees for transportation, lodging, food, park fees, and more.

PHOTO 270 Panorama and QuickTimeVR Photography 3 Units

Prerequisite: None
Hours: 36 hours LEC; 54 hours LAB
Students will learn how to shoot, assemble, and produce digital panoramic photographs for output to print, interactive presentations, and delivery to the web. Through lecture, hands-on exercises, and projects, students will create and manipulate images to construct panoramic photographs and interactive QuickTime VR panoramas for presentation and for the web. Topics include the type of equipment, software, and techniques used to optimize images for the successful creation of panoramic photographs, object movies, interactive presentations, and VR panoramas. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 271 Color Management 1.5 Units

Prerequisite: None
Hours: 18 hours LEC; 27 hours LAB
This course covers the fundamental principles of color management. Topics include calibration, profile generation, color management in Photoshop, and optimizing and preparing images for output to labs, press, inkjet printers, projectors, and the web. Through lecture, hands-on exercises, quizzes, and projects, students will learn to properly manage color for computers, cameras, and inkjet printers from start to finish. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 280 Portfolio Development 2 Units

Prerequisite: PHOTO 301 with a grade of "C" or better.
Hours: 18 hours LEC; 54 hours LAB
This course is designed for students wishing to develop their portfolios both for creative and professional purposes. Individual styles, presentation methods, and forums for distribution and exhibition will be emphasized. Topics of discussion will include: developing a personal visual style, self publishing, self-promotion, conferences and workshops. The format of the class includes lectures, guest speakers from the industry, lab time, field trip, and critique sessions. This course may be taken three times for credit.

PHOTO 299 Experimental Offering in Photography .5-4 Units

Prerequisite: None
Hours: 72 hours LEC; 72 hours LAB
See Experimental Offerings

PHOTO 301 Beginning Photography 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course combines lectures and hands-on experience in basic black and white photography. Instruction includes camera function, exposure control, film processing, enlarging prints, low light photography, flash photography, and print finishing. Creative camera control techniques and elements of composition will also be taught. This course also has an emphasis of instruction in the historical, social, and personal relationship photography plays in our everyday lives. Class includes lectures, slide presentations, lab time, written tests, an optional field trip, and a portfolio. Students must provide their own adjustable camera and necessary materials.

PHOTO 302 Beginning Digital Photography 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course combines lectures with hands-on experience in digital photography. Instruction includes digital camera function, exposure control, flash photography, technical and creative control, basic computer manipulation of images, digital archiving and digital output options. The format of the class includes lectures, visual presentations, lab time, field trip, exams and a portfolio. Students must provide their own adjustable digital camera and necessary media and materials. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 310 Intermediate Photography 3 Units

Prerequisite: PHOTO 301 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This intermediate course provides instruction in camera and advanced darkroom techniques of black and white photography. Topics of instruction include exposure control, film development, enlarging, composition, daylight and artificial lighting, filters, macro photography, print finishing, and historical advancements of photographic processes. The class includes lectures, visual presentations, lab time, written tests, an optional field trip and a portfolio. Students must have their own adjustable cameras and must provide necessary materials.

PHOTO 312 Intermediate Digital Photography 3 Units

Prerequisite: PHOTO 302 with a grade of "C" or better; or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This intermediate course combines lectures with hands-on experience in digital photography. Instruction includes advanced digital camera functions, exposure control, close-up photography, flash photography, technical and creative control, computer manipulation of images with Adobe Photoshop, digital archiving, digital output options, and digital print finishing. The format of the class includes lectures, visual presentations, lab time, required field trip, exams, and a portfolio. Students must provide their own adjustable digital camera and necessary media and materials. A fee is charged for digital printing. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 335 Digital Color Photography 3 Units

Prerequisite: PHOTO 310 and 400 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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, an optional field trip 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. This course may be taken three times for credit due to software changes.

PHOTO 340 Careers in Photography 3 Units

Prerequisite: PHOTO 310 and 400 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to give students an overview of different careers available in the photographic industry. Fields of study include portraiture, fashion, photojournalism, commercial, and wedding photography. 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, and studio visits. Students will also complete a resume, price list, and a final portfolio in traditional film or digital formats. Students must supply their own adjustable cameras and provide related digital equipment.

PHOTO 342 Techniques in Photography 1-4 Units

Prerequisite: None
Corequisite: Concurrent enrollment in at least one photography course.
Course Transferable to CSU
Hours: 216 hours LAB
This course is designed to develop students' skills in both digital and traditional darkroom processes and studio lighting techniques. Students will use the additional lab time in conjunction with a course they currently enrolled in to fully explore the creative and technical elements of the course's assignments. The format of the class includes a final critique session to evaluate the student's progress and achievements in the course. This course may be taken four times for credit providing there is no duplication of topics.

PHOTO 350 Photojournalism 3-4 Units

Prerequisite: PHOTO 310 and 312 with grades of "C" or better; or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 108 hours LAB
This course provides instruction in photojournalism and magazine techniques in photography. Students will study features, sports, spot news, and the photo essay styles of journalistic photography. Students may work with digital or traditional cameras. Students will also capture and use audio to complete multimedia projects. A beginning, advanced, or magazine style digital portfolio will be completed. Students wishing to photograph for campus publications (Express Newspaper, Mainline Magazine, etc) will complete the four-unit requirement. The course includes lectures, visual presentations, speakers, a required field trip, and lab time. Students will provide their own adjustable camera and related materials. This course may be taken four times for credit if completing the one of the four different course topics.

PHOTO 352 Photographic-Essay 3 Units

Prerequisite: PHOTO 310 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course concentrates on the development of the photographic essay. Photographic emphasis is on exploring one subject for the entire semester. Students are required to complete either a print or digital portfolio. Students must provide their own adjustable camera of any format and related materials. A field trip will also be offered. This course may be taken two times for credit if completing the one of the two different course topics.

PHOTO 360 Large Format Photography 3 Units

Prerequisite: PHOTO 301 and 310 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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. Students must have their own camera of any format and must provide necessary materials. The class includes: lectures, lab time, an optional field trip, studio time, written tests, a journal, and a portfolio.

PHOTO 364 Advanced Black and White Photography 3 Units

Prerequisite: PHOTO 301 and 310 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to expand on the technical and creative concepts acquired in intermediate photography. Topics of instruction include: archival printing techniques, advanced methods of print manipulation, and alternative fine art printing processes. Students will work with 35mm, Medium and Large Format traditional cameras. The class includes lectures, visual presentations, lab time, exams, an optional field trip and a portfolio.

PHOTO 365 Alternative Process Photography 3 Units

Prerequisite: PHOTO 310 or 364 with a grade of "C" or better; or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course covers photographic printing processes produced in sunlight. No camera is necessary. Processes such as kallitype, cyanotype, Van Dyke brown printing, and gum printing are covered. It includes the history of photographic processes from the daguerreotype to the digital age. Negatives are produced from digital transparencies, xerox transparencies, ortho-litho film, and natural objects. Printing on paper, fabric, wood, and ceramics is covered. Papers and printing surfaces, brushes, memory storage devices, and safety glasses are required. Field trips may be required. Different topics, artists, and processes are covered each semester.

PHOTO 370 Portraiture and Wedding Photography 3 Units

Prerequisite: PHOTO 310 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to include portrait lighting and posing and an understanding of wedding photography, camera, digital, and darkroom techniques. Topics include wedding protocol, wedding customs and traditions, studio operation, pricing, the most current trends in the industry, and studio/outdoor portraiture. Students are urged to work in traditional black-and-white and digital formats. The format of the class includes lectures, lab time, and a portfolio geared toward a professional presentation. Students are expected to participate in on-location class meetings.

PHOTO 372 Advanced Portrait Photography 3 Units

Prerequisite: PHOTO 370, or 375, or 390 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to give students an in-depth understanding of portraiture. Topics include techniques of lighting and posing, working with groups and individuals, use of appropriate cameras and films, professional ethics, and business strategies. Students may work with digital or traditional cameras. The course includes lectures, lab time, an on-location field trip, exams, a journal, and a portfolio geared toward a professional presentation. A lab fee is charged for all studio classes.

PHOTO 375 Fashion-Glamour Photography 3 Units

Prerequisite: PHOTO 310 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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. Students are expected to participate in on-location meetings.

PHOTO 380 Multimedia Capture I 3 Units

Prerequisite: PHOTO 301 or 302 and PHOTO 310 or 312 with grades of "C" or better, equivalent or technical competency determined by department faculty member upon evaluation of photography portfolio.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an introduction to the basic creative concepts and technical elements of capturing video, audio and still images to create documentary style multimedia content. Students will explore the creative and technical possibilities of merging these three mediums and the various software used to edit this material. Students will receive practical experience in capturing and editing audio and video and still images with Soundslides, Apple,øøs iMovie, Soundtrack Pro, and Final Cut Pro computer programs. Students will complete a final multimedia project and must supply at least one of the following to complete the class: a video camera or an adjustable still camera in either film or digital formats. The course includes lectures, visual presentations, and lab time. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 381 Multimedia Capture II 3 Units

Prerequisite: PHOTO 380 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to expand on the creative concepts and technical elements of capturing video, audio and still images to create advanced documentary style multimedia content. Students will study advanced techniques in capturing and editing audio, video and still images. Students will continue to advance their skills with Soundslides and Apple's iMovie editing programs, but a primarily emphasis will be placed on the use of Apple's Final Cut Pro computer program for completing their final project. Students must supply at least one of the following to complete the class: a video camera or an adjustable still camera in either film or digital formats. The course includes lectures, visual presentations, and lab time. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 390 Studio Lighting Techniques 3 Units

Prerequisite: PHOTO 310 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is a study in studio lighting techniques used in commercial photography. Topics of instruction include: lighting ratio, correct exposure using electronic flash, basic 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, color and digital techniques. The class includes: lectures, slide presentations, lab time, written tests, notebook and a portfolio, with three outside on-campus class meetings. Students must provide their own adjustable camera and related instructional materials.

PHOTO 392 Commercial and Advertising Photography 3 Units

Prerequisite: PHOTO 310 and 390 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
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, and studies of commercial, advertising, and marketing photography. Students are encouraged to work in a variety of formats, using black & white, color, and digital techniques. Emphasis will be placed on shooting with medium and large format cameras. The class includes lectures, slide presentations, an optional field trip, 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 395 Stock Photography I 3 Units

Prerequisite: PHOTO 301 or 302 and PHOTO 310 or 312 with grades of "C" or better, equivalent or technical competency determined by faculty member upon evaluation of photography portfolio.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to give students an introduction to the creative, technical, and unique business aspects of Stock Photography. Stock Photography is defined as photography of common landmarks, objects, concepts, people, and events that can be sold and resold for a variety of commercial purposes. Topics of instruction include getting started in stock photography, defining your creative style, shooting images that sell, working with stock agencies, using fotoQuoto software, and understanding the stock image enhancement work flow with Adobe Photoshop. Students are encouraged to pursue their own style, subject matter, and markets of interest through the production of a stock portfolio. Students will also work in a variety of shooting environments including studio and remote locations to enhance their technical skills. The class includes lectures, image presentations, an optional field trip, lab time, written tests, a notebook, and a final portfolio. This course may be taken three times for credit if the version of software being taught has changed. Students must supply their own adjustable traditional or digital camera and related materials.

PHOTO 396 Stock Photography II 3 Units

Prerequisite: PHOTO 395 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to expand on the technical, creative, and business aspects acquired in PHOTO 395. Topics of instruction will advance students understanding of the profession of stock photography. Topics include discovering emerging markets, targeting an audience and creative trends, using people professionally in your stock photography, using a stock agent, advance image enhancement with Adobe Photoshop, and changing your style in a changing market. Students are encouraged to pursue new styles, subject matter, and markets of interest through the production of a stock portfolio. Students will continue to shoot in a variety of new environments to enhance their developing technical skills. The class includes lectures, image presentations, an optional field trip, lab time, written tests, a notebook, and a final portfolio. This course may be taken three times for credit if the version of software being taught has changed. Students must supply their own adjustable traditional or digital camera and related materials.

PHOTO 400 Digital Imaging 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is an introductory course in digital imaging. Methods currently used in publishing will be emphasized. The course topics include Adobe Photoshop, page layout, multimedia use for electronic portfolio, use of computers, scanners, and how to develop a digital portfolio. A field trip is included in this course to learn about industry applications. Students must provide their own adjustable camera and digital materials. A fee is charged for digital printing. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 401 Digital Photography 3 Units

Prerequisite: PHOTO 301 and 400 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is an introductory class in digital photography. The class includes: lectures, use of computers, and scanning information on digital cameras, slide presentations, 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 if the version of software being taught has changed.

PHOTO 402 Digital Asset Management with Aperture & Photoshop Lightroom 1.5 Units

Prerequisite: PHOTO 302 with a grade of "C" or better; or equivalent
Course Transferable to CSU
Hours: 18 hours LEC; 27 hours LAB
This course covers the fundamentals and real-world principles of digital asset management using Apples Aperture and Adobe Photoshop Lightroom computer programs. Topics include building an efficient photographic work-flow for managing, editing, and archiving digital photographs. Through lecture, hands-on exercises, quizzes, and projects, students will learn to properly manage the most time-consuming and tedious tasks professional digital photographers have to handle from capture to final output. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 406 High Dynamic Range Imaging "HDRI" 3 Units

Prerequisite: PHOTO 302 with a grade of "C" or better; or equivalent
Hours: 36 hours LEC; 54 hours LAB
Course Transferable to CSU
This course is designed to introduce students to the latest photographic technology know as High Dynamic Range Imaging "HDRI". HDRI offers a method and a set of techniques to capture the full range of tones in a scene that replicates the human perception more accurately. Through lecture, hands-on exercises, and projects, students will capture and process images with HDRI software to produce photographs with a level of control that far exceeds conventional digital processing methods. Topics include the type of equipment, software, and techniques used to process images with this technology. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 410 Advanced Digital Imaging 3 Units

Prerequisite: PHOTO 312 or 400 with a grade of "C" or better; or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is an advanced study of digital imaging and related software programs. Methods currently used in publishing will be emphasized. The class includes lectures, optional field trip, use of computers, scanners, and a variety of output devices, and preparation of a digital portfolio and printed work. A fee is charged for digital printing. This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 415 Advanced Digital Photo Restoration and Retouching 3 Units

Prerequisite: PHOTO 312 or 400 with a grade of "C" or better; or equivalent.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course prepares students for professional retouching and restoration of damaged photographs and also for portrait and glamor retouching. Students will learn to use computer software and hardware suited to these purposes. Students are responsible for camera and processing costs.This course may be taken three times for credit if the version of software being taught has changed.

PHOTO 490 Assignment Photography .5-4 Units

Prerequisite: PHOTO 301 or 302 AND PHOTO 310 or 312 with grades of "C" or better or equivalent.
Course Transferable to CSU
Hours: 43 hours LEC; 87 hours LAB
This course will introduce career-driven photography students to producing, creating, and completing real-world photography projects for non-profit organizations and the Sacramento community. Through lecture, demonstration, client meetings, and brainstorming sessions, students will have the opportunity to develop a portfolio of completed projects. Students will also experience deadlines, the client-photographer relationship, how to set pricing for projects, and strategies for presenting concepts. This course may be taken up to 3 times if there is a change in the production role (Assignment Producer, Photographer, Post-Production Artist).

PHOTO 494 Topics in Photography .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB

PHOTO 495 Independent Studies in Photography 1-3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LAB
See Independent Studies

PHOTO 498 Work Experience in Photography 1-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 216 hours LAB
This course provides students with opportunities to develop marketable skills in preparation for employment or advancement within their current job. Course content will include understanding the application of education to the workforce; completion of required forms, which document the student's progress and hours spent at the work site; and developing workplace skills and competencies. During the course of the semester, the student is required to fulfill an 18 hour orientation and 75 hours of related paid work experience, or 54 hours of unpaid work experience for one unit. An additional 75 or 54 hours of related work experience is required for each additional unit. This course may be taken up to four times for credit for a maximum of 16 units.

PHOTO 499 Experimental Offering in Photography .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Physical Education
ADAPT, DANCE, FITNS, PACT, PET, SPORT, TMACT

Associate in Arts Degree

Kinesiology-Athletic Training, Degree

Kinesiology-Exercise Science, Degree

Division of Physical Education, Health, and Athletics

Mitchell Campbell, Dean/Athletic Director

Hughes Stadium, Sections 1 & 3

916-558-2425

Kinesiology-Athletic Training
Associate in Arts Degree

Program Information

This program 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 Degrees.

Recommended High School Preparation
Standard college preparatory program.

Career Opportunities
Teaching athletic training classes, working in a high school, community college, or four-year university, and in professional sports.

Upon completion of this program, the student will be able to:
- enumerate the many work environments available for athletic trainers.
- explain the athletic trainers code of ethics.
- describe basic human anatomy and physiology.
- enumerate the elements of injury prevention.
- demonstrate emergency medical procedures.
- assess basic athletic injuries.
- demonstrate treatment of acute injuries.
- demonstrate rehabilitation programs.
- demonstrate the procedures for the daily operation of a training room.
- demonstrate athletic taping, bandaging, and bracing.

Required Program **Units**

Science Classes

CHEM 305 Introduction to Chemistry (5) 5
or CHEM 400 General Chemistry (5)
CHEM 306 Introduction to Chemistry (5) 5
or CHEM 401 General Chemistry (5)
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/ 3
Sports Medicine
PET 497 Internship in Physical Education - Theory 1-4
NUTRI 300 Nutrition (3) 3
or FCS 340 Nutrition (3)

Total Units Required **36-39**

Associate in Arts (A.A.) Degree
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.

Kinesiology-Exercise Science
Associate in Arts Degree
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.

Students must complete a standard college preparatory program, especially intermediate algebra and chemistry.

Career Opportunities
Most career options require a Bachelor's degree. Once a Bachelor's degree is obtained, career opportunities include teaching, coaching, various recreation positions, various health careers, and athletic administration in elementary and secondary schools and colleges.

Upon completion of this program, the student will be able to:
- demonstrate an understanding of human development, both normal and abnormal, and the implications for program design.
- identify and apply standards required by the profession of choice.
- demonstrate an understanding of the basic structure of the human body and how its various systems respond.
- demonstrate oral and written competence in the major field.
- develop and articulate a statement of values or code of ethics related to the major that reflects one's respect for different ideas, peoples, and cultures and an understanding of the responsible uses of technology.
- demonstrate continued personal and professional development by reviewing current literature, participating in associations, or sharing knowledge and experience with others.

Required Program	Units
CHEM 305 Introduction to Chemistry (5)	5
or CHEM 400 General Chemistry (5)	
BIOL 430 Anatomy and Physiology	5
BIOL 431 Anatomy and Physiology	5
STAT 300, Introduction to Probability and Statistics	4
NUTRI 300, Nutrition (3)	3
or FCS 340, Nutrition (3)	
Kinesiology Exercise Science	
PHYS 340 General Physics	4
BIOL 402 Cell and Molecular Biology	5
Total Units Required	**31**

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.

Physical Education

NOTE: The University of California has a limitation on the number of units of physical education activity 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 310 Adapted Lifetime Sports 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: 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 Disability Resource Center (DRC).
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a physical education course designed to expose individuals with physical disabilities to a variety of individual sports in which they can participate. Modifications and assisted devices will be used to enable students to participate in sports such as basketball, kayaking (in the pool), tennis, etc. This course may be taken four times for credit.

ADAPT 320 Arthritis Exercise, Individual Exercise for Individuals with Arthritis 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: 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 Disability Resource Center (DRC).
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a physical education course that is specifically 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: 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 Disability Resource Center (DRC).
Course Transferable to CSU
Hours: 54 hours LAB
This is a physical education course 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: A student must have a temporary or permanent disability. Student must have medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the Disability Resource Center (DRC).
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a physical education course that is specifically 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: 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 Disability Resource Center (DRC).
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a weight training course 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: 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 Disability Resource Center (DRC).
Course Transferable to UC/CSU
Hours: 54 hours LAB
Water exercises will be individually designed for students with physical limitations. This course may be taken four times for credit.

ADAPT 499 Experimental Offering in Adapted Physical Education .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 270 hours LAB
See Experimental Offering

Dance (DANCE)

DANCE 304 Polynesian Dance 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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

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 III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
In this course students will learn to perform beginning level ballet positions, barre warm up exercises, turns, and ballet techniques. Center and across the floor exercises will focus on increased control, speed, strength, and balance. Students will develop a ballet movement vocabulary and apply ballet terminology appropriately including a performance of class repertoire. Students will also gain an understanding of the historical and traditional foundations of ballet and learn to appreciate ballet as a movement theory and art form. This course may be taken four times for credit.

DANCE 330 Modern Dance 1 Unit

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 III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course 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 dances to various types of music, percussion instruments, and other media. This course may be taken four times for credit.

DANCE 340 Ballroom Dance 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course offers instruction in basic ballroom dance. Students will develop the skills necessary for dances such as the Salsa, Cha Cha, Swing, Fox Trot, Waltz, 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 1.5 Units

Prerequisite: None
Advisory: Dance and performance experience
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to CSU
Hours: 9 hours LEC; 54 hours LAB
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 provided different topics are taken.

DANCE 373 Cheer and Dance 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: By audition only.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is for intermediate/advanced cheer and dance students with experience in cheer motion, and dance. Dance members must process experience in Jazz/Pom/Funk/Hip-Hop and Kick styles of dance. All members perform at school athletic events and community events. Students are required to pay a lab fee for team uniforms. Contact division office (916- 558-2420) for information.

DANCE 499 Experimental Offering in Dance .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 216 hours LAB
See Experimental Offering

Fitness (FITNS)

FITNS 300 Aerobics 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
A physical education course that is designed to improve an individual's level of fitness, general appearance, and well being. Emphasis will be placed on cardiovascular fitness, muscle toning, and flexibility while performing instructor-led routines and engaging in mat exercises. This course may be taken four times for credit.

FITNS 306 Aerobics: Cardio-Kickboxing 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course emphasizes execution of the body movements and the mechanics, and the 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
The Step Aerobics class is a physical education course designed to improve an individual's level of fitness, general appearance, and well being. This course will concentrate on cardio-respiratory fitness, flexibility, muscular strength and endurance, resting and training heart rates, injury prevention, and weight management through step aerobics. This will be achieved through 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course is designed to improve the student's fitness level through the use of shallow water aquatic exercises. Specifically, the student should increase muscular strength and endurance, as well as improve flexibility and cardio-respiratory fitness. Additionally, the student will learn about resting and training heart rates, weight management, and injury prevention as it relates to exercise. No swimming skills are needed. This course may be taken four times for credit.

FITNS 312 Aquatic Fitness 1 Unit

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 III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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 III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This beginning course covers a method of body conditioning that 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 matwork 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 331 Boot Camp Fitness 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course is designed as an intensive boot camp fitness class conducted on campus using indoor and outdoor facilities. Training includes aerobic, anaerobic conditioning, strength and endurance training, and individual and team fitness concepts. This course may be taken four times for credit.

FITNS 332 Off Season Conditioning .5-1 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Students must be a member of an intercollegiate athletic team.
Course Transferable to UC/CSU
Hours: 54 hours LAB
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 a maximum of four units for credit.

FITNS 336 Plyometrics: Advanced Conditioning 1 Unit

Prerequisite: None
Advisory: This course requires that the student participate in various high intensity workouts needed for sport specific training.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course is specifically designed for cycling enthusiasts and other athletes looking to improve their cardiovascular levels. This course will use basic and athletic drills based on speed, work resistance, and recovery periods. This course may be taken four times for credit.

FITNS 350 Fitness And Weight Control 2 Units

Prerequisite: None
Advisory: ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is designed for students who wish 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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 Trim and Tone Conditioning 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
Trim and Tone Conditioning 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 various activities, for example, exercises for abdominal and core, exercises for hamstrings and quadriceps, exercises for buttocks and exercises for the upper body. This course may be taken four times.

FITNS 357 Wellness 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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 363 Rowing 1 Unit

Prerequisite: Students must be able to swim at least 100 yards and tread water for ten minutes in the Port of Sacramento.
Enrollment Limitation: Students must become members of River City Rowing Club.
General Education: AA/AS Area III(a); CSU Area E
Course Transferable to CSU
Hours: 54 hours LAB
This course is designed for beginner and intermediate rowers. Safety, proper care of equipment, and correct rowing technique will be taught. Students will row in rowing shells (boats) and learn the fundamental aspects of sweep rowing (use of one oar per rower). Rowing is an activity that will help increase cardiovascular and muscular endurance, strength, and flexibility. This course may be taken four times for credit.

FITNS 371 Life Fitness Center Training 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a)
Course Transferable to UC/CSU
Hours: 54 hours LAB
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 Pass/No Pass. This course may be taken four times for credit.

FITNS 372 Life Fitness Strength Training 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a) (effective Summer 2009)
Course Transferable to CSU
Hours: 54 hours LAB
This course is an open-entry/open-exit course designed to provide instruction in proper training techniques for increasing muscular strength and endurance, utilizing plate-loaded apparatus, free weights, selectorized weight machines, and Olympic lifting techniques. A required orientation includes 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. This course is graded Pass/No Pass. Students may enroll in the class up to the fourth week of the semester. This course may be taken four times.

FITNS 380 Circuit Weight Training 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
Circuit Weight Training combines machine weight training, some free-weight training, core medicine ball training, body weight training, cardiovascular endurance, muscular 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

Prerequisite: For Beginning Weight Training: None; For Advanced Weight Training: Student must possess beginning weight training skills and knowledge.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course provides instruction in weight training and techniques that promote muscular strength and endurance. Proper use of free weights and machines along with safety rules will be discussed. Students enrolling in Advanced Weight Training will be required to take a skills test. This course may be taken four times for credit.

FITNS 383 Olympic Power Weight Lifting 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E
Course Transferable to CSU
Hours: 54 hours LAB
This course is designed to introduce Olympic Power weight lifting to students interested in developing overall core strength and conditioning. Lifting techniques such as clean and jerk, snatch, squat, bench press, and deadlift will be taught through lifting progressions. The history of Olympic Power weight lifting and the development of individual lifting programs will be introduced and discussed. This course may be taken four times for credit.

FITNS 390 Basic Yoga 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course is designed to enhance fitness levels in everyone. It is a complete fitness program to achieve a more limber body, regardless of age, increase physical coordination, improve posture, and improve flexibility. This form of exercise embodies controlled movement, concentration, and conscious breathing. This course may be taken four times for credit.

FITNS 401 Walking 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a physical education course designed to improve a student's level of fitness, physical appearance, and well being. This course will concentrate on techniques, cardiovascular endurance, muscle strengthening and flexibility utilizing walking as an activity. Walking workouts use on and off-campus routes. This course may be taken four times for credit.

FITNS 402 Running for Fitness .5-1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
Running for Fitness 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 and cardiovascular endurance and organic power, as influenced by such factors as body type, diet, health status, rest, and genetic potential. This course may be taken four times for a maximum of four units.

FITNS 412 Martial Arts: Taekwondo 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a)
Course Transferable to CSU
Hours: 54 hours LAB
This course provides students with a basic knowledge of Taekwondo and its tradition. Proper technique, such as stance and postures, kicks, punches, blocks, poomsae (a series of defending and attacking movements), etiquette, and physical fitness, will also be included. This course may be taken four times for credit.

FITNS 436 Lifeguard Training 2 Units

Prerequisite: FITNS 440 - Advanced Swimming with a grade of "C" or better or equivalent.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 28 hours LEC; 24 hours LAB
This course covers the knowledge and skills needed to prevent and respond to aquatic emergencies. The course content and activities prepare participants to recognize and respond quickly and effectively to emergencies and prevent drownings and injuries. Upon successful completion of the Lifeguard Training course requirements and exams, students will earn American Red Cross certificates. The American Red Cross certificates are only valid for one year for the CPR portion, and three (3) years for the Lifeguard Training and First Aid portion of the American Red Cross certifications. This course may be taken two times for credit.

FITNS 440 Swimming 1 Unit

Prerequisite: For Beginning Swimming: none; For Intermediate Swimming: Student must achieve a passing standard on the swim test of 50 yards of freestyle with proficient breathing to the side; For Advanced Swimming: Student 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 III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course 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 yards). 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 breast stroke. 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

Prerequisite: None
General Education: AA/AS Area III(b); AA/AS Area III(a); CSU Area E2
Course Transferable to CSU
Hours: 18 hours LEC; 36 hours LAB
This is a physical education course in personal safety. The major areas to be reviewed are safety in the home, workplace, school, online environment, street, and car. The course covers prevention, defensive strategies (physical and non-physical), and follow-up (police report, medical, psychological). Community resources will be discussed.

FITNS 499 Experimental Offering in Fitness .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 216 hours LAB
This is an experimental course offering designed to provide students with courses not normally offered by the Physical Education Department. Course topics will be structured around new and emerging physical activities related to the field of Physical Education. This course may be taken four times for a maximum of 16 units.

Personal Activities (PACT)

PACT 310 Badminton 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course provides instruction in basic fundamentals, techniques, and rules of badminton. The emphasis is on skill and technique development as well as strategies for singles and doubles.This course may be taken four times for credit.

PACT 320 Bowling 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a physical education course for beginning, intermediate, and advanced bowlers that will cover fundamental techniques, as well as rules, etiquette, and scoring. Emphasis is 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
Boxing is a physical education course that will cover the basic fundamentals and techniques of the sport. Methodology, strategy, and self-defense applications will also be included. This course may be taken four times for credit.

PACT 340 Fencing 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a physical education course that will cover the basic fundamentals and techniques of foil fencing. Rules and strategy will also be included. This course may be taken four times for credit.

PACT 350 Golf 1 Unit

Prerequisite: For Beginning Golf: none; For Intermediate Golf-Beginning golf skills; For Advanced Golf-Intermediate golf skills.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
Golf covers the basic skills and knowledge necessary to play the game of golf. Instruction for this course is provided at an off-campus location. The student will need transportation to the facility. This course focuses; on the fundamental skills necessary to strike and putt the ball to play the game, and game course management strategies in order to negotiate a golf course. There are beginning, intermediate and advanced levels of this course. Some sections of this course are held on area regulation golf courses. Students must have their own set of golf clubs and equipment. This course may be taken four times for credit.

PACT 380 Table Tennis 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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

Prerequisite: PACT 390 with a grade of "C" or better; Beginning/intermediate: none. Advanced: passing beginning/intermediate with a grade of "C" or better or demonstrate ground strokes, volley, overhead serve skills to the intermediate level.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course in Tennis covers the basic fundamentals, stroke techniques, and strategies for singles and doubles play. Beginning/Intermediate Tennis will cover the basic fundamentals, techniques, rules, strategies, and etiquette of the activity, singles and doubles play strategies 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a physical education course 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 activities. This course may be taken four times for credit.

PACT 410 Wrestling 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
The wrestling course is a physical education class that will cover the basic fundamentals of intercollegiate wrestling. The student will have the opportunity to obtain knowledge and practical experience of intercollegiate wrestling. This course may be taken four times for credit.

PACT 499 Experimental Offering in Personal Activity .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 270 hours LAB
This is an experimental course offering designed to provide students with courses not normally offered by the Physical Education Department. Course topics will be structured around new and emerging physical activities related to the field of Physical Education. This course may be taken four times for a maximum of 16 units.

Physical Education - Theory (PET)

PET 300 Introduction to Physical Education, Fitness, and Sport 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 310 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course provides students with an orientation to the history and trends in physical education, fitness, and sport. Students will be introduced to various career and professional issues in the physical education, kinesiology, and sports fields. An introduction in the major subfields including exercise physiology, biomechanics, motor learning, sport sociology, and sport and exercise psychology will be discussed.

PET 304 Introduction to Sports Management 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 310 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This course is designed to introduce students to the scope and career opportunities of Sports Management. Emphasis will be placed on current events in the world of Sports Management.

PET 307 Mental Skills for Sport Performance 3 Units

Prerequisite: None
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
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 330 Care and Prevention of Athletic Injuries 3 Units

Prerequisite: None
Corequisite: PET 331
Advisory: ENGWR 100 or ESLW 320, and LIBR 318 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Corequisite: PET 330
Course Transferable to CSU
Hours: 54 hours LAB
This course is designed to teach techniques of taping, wrapping, stretching, and soft tissue management to facilitate prevention and rehabilitation of athletic injuries. Students will be required to purchase 16 rolls of 1 1/2 inch athletic tape.

PET 334 Practical Applications in Athletic Training/Sports Medicine 3 Units

Prerequisite: PET 330 and 331 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed to meet the educational needs of students planning to transfer and major in athletic training. The curriculum for athletic training is very structured and 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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
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, drills to develop team fundamentals (Bunt defenses, cutoffs and relays, pick-offs, 1st and 3rd defenses)and drills to develop conditioning and strength development, charting, and scouting.

PET 346 Theory of Basketball 2 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
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 352 Theory of Football 2 Units

Prerequisite: None
General Education: AA/AS Area III(a)
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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, Quarterbacks, 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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
This course is designed to develop advanced analysis of Softball. Focus is placed on analysis and instruction of individual 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, along with team building fundamentals and drill to develop those qualities. Also included will be analysis of various coaching techniques, theories, and philosophy.

PET 364 Theory of Swimming 2 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LAB
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
Course Transferable to UC/CSU
Hours: 36 hours LEC
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 370 Theory of Track and Field 2 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
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 and rules and strategies for successful performance in track and field.

PET 374 Theory of Volleyball 2 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
This course provides the foundation for 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, fund raising, practice organization, individual fundamentals, and drills to develop those fundamentals. Also included will be analysis of various coaching techniques, theories, and philosophies.

PET 410 Personal Trainer Certification: Exercise Science & Fitness Assessment 3 Units

Prerequisite: None
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
This course is designed to provide the theoretical knowledge necessary to prepare for the American Council on Exercise's National Personal Training Certification Exam. Topics include the following: exercise physiology, human anatomy, applied kinesiology, basic nutrition, health screening, fitness assessment, cardiovascular fitness, muscular strength and endurance, and flexibility.

PET 411 Personal Trainer Certification: Program Design & Instructional Methodology 2 Units

Prerequisite: PET 410 with a grade of "C" or better; or equivalent
General Education: AA/AS Area III(b)
Enrollment Limitation: None.
Course Transferable to CSU
Hours: 27 hours LEC; 27 hours LAB
This course is designed to provide the student with the theoretical knowledge and practical skills needed to prepare for the American Council on Exercise's National Personal Training Certification Examination. Topics include: program design and implementation for both healthy adults and special populations, communication, and teaching techniques, injury prevention and safety, and professional responsibilities.

PET 412 Strength and Fitness Certification 3 Units

Prerequisite: None
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
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 (NCSF). 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 414 Health Fitness Management 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
This course is designed to provide students with the basic guidelines for starting and managing multiple health and fitness centers in the private setting. The course focuses on initial start-up of a health and fitness center and operating procedures with emphasis on equipment selection and arrangement, employee training, and program planning for safe and optimally beneficial health and fitness results.

PET 418 Nutrition for Physical Performance 3 Units

Same As: NUTRI 302
Prerequisite: None
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 54 hours LEC
This course will explore nutrition and fitness with emphasis on the relationship between nutrition, physical activity, lifelong fitness, and health.

PET 451 Principles and Theory of Athletic Coaching 3 Units

Prerequisite: None
Advisory: ENGWR 100 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This course will introduce philosophy, theories, and development of athletic coaching. The course will include topics on philosophy, team management, risk management, and injury prevention that will assist new and experienced coaches to develop strategies necessary for success.

PET 495 Independent Studies in Physical Education - Theory 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regular offered courses, pursuant to an agreement among college, faculty members, and students. Independent studies in Physical Education Theory offer students a chance to do research that is more typical of community and graduate student work. This course may be taken four times for a maximum of 12 units providing there is no duplication of content areas.

PET 497 Internship in Physical Education - Theory 1-4 Units

Prerequisite: PET 330 and 331 with grades of "C" or better or concurrent enrollment in PET 330 and 331 or proof of knowledge and skills of preventative taping and recognition of basic athletic injuries.
Course Transferable to CSU
Hours: 18 hours LEC; 162 hours LAB
The student will be exposed 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 a maximum of 16 units for credit.

PET 499 Experimental Offering Physical Education Theory .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offering

Sports (SPORT)

SPORT 90 Academic Study Skills for Student Athletes .5-3 Units

Prerequisite: None
Enrollment Limitation: Must be a student-athlete registered in an intercollegiate sport at Sacramento City College.
Hours: 9 hours LEC; 162 hours LAB
This lecture/lab course is designed to assist the at-risk 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. Grades are Pass/No Pass. This is an open entry, open exit course. A student may register for the course up to the eighth (8) week of the semester. A student may take the course up to four times for a maximum of three (3) units.

SPORT 300 Baseball, Intercollegiate-Men 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment the student must demonstrate intercollegiate athletic skills as determined by a try-out conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced baseball team activity that provides competition with other community college teams. Fundamentals, rules, and individual and /or team strategies 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a try-out conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced course designed to provide specialized training for competition with 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a try-out conducted by coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced course designed to provide specialized training for competition with 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 320 Cross Country, Intercollegiate-Men 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
The advanced cross country course will provide specialized training for competition with 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
The advanced cross country course will provide specialized training for competition with 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 330 Football, Intercollegiate-Men 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced football team activity, which provides competition with other community college teams. Fundamentals, rules, and individual and/or team strategies 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced golf team activity that 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
The purpose of this class is to provide the student with an advanced level of knowledge and skills for competition with other community college teams. Principles, advanced techniques, psychological components, and defense/offense strategies of soccer will be taught throughout the class for intercollegiate competition. This course may be taken three times for credit.

SPORT 365 Softball, Intercollegiate-Women 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced softball team activity that provides competition with other community college teams. Fundamentals, rules, and 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced swimming and diving team activity that provides competition with other community college teams. Fundamentals, rules, and 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced swimming and diving team activity that provides competition with other community college teams. Fundamentals, rules, and 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced tennis team activity that provides competition with other community college teams. Knowledge of fundamentals, rules, and 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced tennis team activity that provides competition with 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
The intercollegiate track and field course provides specialized advanced programs to provide specialized training for competition with other community college teams. Each student will be trained in the fundamental and advanced techniques needed for his specific events, along with the rules, strategies, sportsmanship and teamwork appropriate for intercollegiate competition. This course may be taken three times for credit.

SPORT 395 Track and Field, Intercollegiate-Women 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
The intercollegiate track and field course is an advanced program to provide specialized training for competition with other community college teams. Students will be trained in the fundamental and advanced techniques needed for their specific events, along with the rules and strategies appropriate for intercollegiate competition. This course may be taken three times for credit.

SPORT 405 Volleyball, Intercollegiate-Women 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced, competitive volleyball team activity that provides competition with other community college teams. Fundamentals, rules and 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/eligibility.

SPORT 415 Water Polo, Intercollegiate-Women 2 Units

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced water polo team activity that provides competition with other community college teams. Fundamentals, rules, team strategy, and swimming skills 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

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Enrollment Limitation: Prior to enrollment, the student must demonstrate intercollegiate athletic skills as determined by a tryout conducted by the coaching staff.
Course Transferable to UC/CSU
Hours: 180 hours LAB
This is an advanced wrestling team activity that provides competition with 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.

SPORT 499 Experimental Offering in Sport .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 270 hours LAB
See Experimental Offering

Team Activities (TMACT)

TMACT 300 Soccer, Indoor 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
The purpose of this course is to provide the student with beginning level knowledge and skills associated with indoor soccer. Students will learn the differences between indoor and outdoor soccer. History, techniques, rules, and strategies of the game of indoor soccer will be taught throughout the class. As a result of the class, the students will improve their general physical fitness and skill performance. This course may be taken four times for credit.

TMACT 302 Soccer - Outdoor 1 Unit

Prerequisite: None
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
The purpose of this course is to provide the student with beginning level knowledge and skills in soccer. Principles, techniques, rules, and strategies of soccer will be taught throughout the class. As a result of the class, the students will improve their general physical fitness and skill performance. This course may be taken four times for credit.

TMACT 310 Baseball 1 Unit

Prerequisite: For Intermediate Baseball: Beginning Baseball skills or equivalent. For Advanced Baseball: Intermediate Baseball with a grade of "C" or better, or equivalent skills.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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 emphasized. 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 III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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

Prerequisite: For Intermediate Basketball: Beginning basketball skills. For Advanced Basketball: Intermediate Basketball with a grade of "C" or better, or equivalent skills.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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. In the advanced basketball class, 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

Prerequisite: For Intermediate Volleyball: Beginning Volleyball with a grade of "C" or better; For Advanced Volleyball: Beginning and Intermediate Volleyball with grades of "C" or better.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This physical education activity course will cover the fundamentals of the sport of volleyball including: the pass, set, spike, serve, block, dig, offense, and defense. Collegiate rules, etiquette, and strategy for six person team play will be taught. Beginning volleyball: the basic fundamentals and techniques of the game will be reviewed including 6-6 and 4-2 offense, middle-up defense, and 4 on 4 competition. Intermediate volleyball: 4-2 and 6-2 offense, middle-back defense, 4 on 4, and 3 on 3 competition. Advanced volleyball: 6-2 and 5-1 offense, middle-back and rotation defense, 4 on 4 and 3 on 3 and 2 on 2 competition. This course may be taken four times for credit.

TMACT 340 Football 1 Unit

Prerequisite: Prerequisite: For Intermediate Football: Beginning football skills. For Advanced Football: Intermediate Football with a grade of "C" or better, or equivalent skills.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
Advanced football is a physical education course that covers the advanced fundamentals and techniques of the game. Topics will include rules, strategy, social etiquette, and advanced skills. This course can be taken four times for credit.

TMACT 341 Theory of Football Lab 1 Unit

Prerequisite: PET 352 with a grade of "C" or better
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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

Prerequisite: None
Advisory: Advanced softball skill level.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
This is a course emphasizing defense, offense, pitching, base running, and conditioning which is designed to develop advanced skills in fielding, pitching, base running, and hitting. Emphasis will be placed on team offensive and defensive strategies at an advanced playing level. Field trips may be required. This course may be taken four times for credit.

TMACT 370 Water Polo 1 Unit

Prerequisite: Student must achieve a passing standard on the swim test of 100 yards of freestyle with proficient breathing to the side and 50 yards of backstroke.
General Education: AA/AS Area III(a); CSU Area E2
Course Transferable to UC/CSU
Hours: 54 hours LAB
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.

TMACT 499 Experimental Offering in Team Activity .5-4 Units

Prerequisite: None
27-216 hours LAB
This is an experimental course offering designed to provide students with courses not normally offered by the Physical Education Department. Course topics will be structured around new and emerging physical activities related to the field of Physical Education. This course may be taken four times for a maximum of 16 units.

Physical Therapist Assistant PTA

Associate in Science Degree

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

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 (33.5 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 (PTA 122) requires one full day per week during the second semester of the program. Clinical Practicum I and II (PTA 142 and 152) are each full time 6-week clinical experiences at the end of fall and spring semesters of the second year. Clinical sites are located throughout the greater Sacramento and Northern California region.

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, and skilled nursing and extended care facilities. Physical therapist assistants treat clients with mobility, strength, and coordination disorders in order to improve function, decrease pain, and increase independence. The scope of practice includes activities such as therapeutic exercise, administration of physical modalities, ambulation training, and assisting patients with transfers and functional activities. Physical therapist assistants collect and document data in order to assess whether patients are progressing appropriately within the plan of care determined by the physical therapist.

Recommended Preparation
High school college preparatory courses including algebra, biology, chemistry, and physiology are recommended. Volunteer work or observational experience in a physical therapy facility is recommended in order to assist students in making a career decision. Medical Language (AH 110) is advised prior to enrollment in the program.

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. Courses taken for Credit/No Credit (C/NC) will be calculated into GPAs as a "C" grade. Applicants must submit applications and official transcripts to the Science and Allied Health Division. Approximately 30 students are enrolled in the program annually. Prerequisite courses include:

1. BIOL 430 and 431 (Anatomy and Physiology), or equivalent courses, within 10 years, with grades of "C" or better.
2. PTA 100 (Introduction to Physical Therapist Assistant) and ENGWR 300 (College Composition) or ESLW 340 (Advanced Composition), with grades of "C" or better.
3. ENGRD 110 (Composition Strategies and Vocabulary Development for College), with a grade of "C" or better, or eligibility for ENGRD 310 (Prose Analysis and Interpretation) 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
Applications for enrollment and official transcripts supporting completion of prerequisite courses must be submitted to the Science and Allied Health Division. Enrollment applications and deadlines are available from the Science and Allied Health Division Office (Mohr Hall, Room 18 or 916 558-2271) or the physical therapist assistant program website at http://www.scc.losrios.edu/~sah/physther/.

In the event there are more applicants than spaces available, students who meet the enrollment eligibility requirements will be entered into a random selection pool.

Students accepted for enrollment in the Physical Therapist Assistant Program will be required to provide documentation of a) capability to perform essential job-related functions of a physical therapist assistant; b) completed physical examination and immunizations; c) TB test; d) current professional level CPR certification; and e) first aid certification. Prior to assignment to a clinical experience, students will be required to undergo a criminal background check and an 8-panel drug screen test.

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 processes, 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 use the pull-down menu to select 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 $40.00; 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 experiences.

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.

Upon completion of this program, the student will be able to:
- demonstrate ability to apply knowledge of basic anatomy and biomechanics to the study of normal and abnormal human movement.
- discuss etiology, signs, symptoms, prognosis, and general treatment of selected disorders commonly seen in physical therapy.
- demonstrate understanding of the theoretical basis of modalities and procedures used in physical therapy interventions.
- perform in a safe manner that minimizes risk to patients, self, and others.
- conduct self in a responsible manner.
- interact with others in a respectful manner.
- adhere to ethical standards for practice.
- adhere to legal standards for practice.
- communicate in ways that are congruent with situational needs.
- produce documentation to support the delivery of physical therapy services.
- deliver established patient care to reflect respect for and sensitivity to individual differences.
- participate in status judgments within the clinical environment based on the plan of care established by the physical therapist.
- obtain accurate information by performing selected delegated data collection consistent with the plan of care established by the physical therapist.
- discuss the need for modifications to the plan of care established by the physical therapist.
- perform physical therapy interventions in a technically competent manner.
- educate others (patients, families, care givers, staff, students, other health care providers) using relevant and effective teaching methods.
- participate in activities addressing quality of service delivery.
- participate in addressing patient needs for services other than physical therapy.
- manage resources (e.g. time, space, and equipment) to achieve the goals of the clinical setting.
- participate in fiscal management of the physical therapy clinical setting.
- interact with physical therapy aides and other support personnel according to legal standards and ethical guidelines.
- implement a self-directed plan for career development and lifelong learning.
- assist the physical therapist in addressing primary and secondary prevention needs of individuals and groups.

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)	3-4
or ESLW 340 Advanced Composition (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 3.5
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
PTA 153 Professional Issues in Physical Therapy 1

General Education Courses:
PSYC 370, Human Development: A Life Span (3) 3
or FCS 324, Human Development: A Life Span (3)
SOC 300, Introductory Sociology (3) 3
or ANTH 310 Cultural Antrhropology (3)
FCS 340, Nutrition (3) 3
or NUTRI 300, Nutrition (3)
or HEED 300 Health Science (3)

Total Required Units **63-64**

[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 (A.S.) Degree
The Associate in Science Degree may be obtained by completion of all components of the required program, plus general education requirements. See SCC graduation requirements.

Physical Therapist Assistant (PTA)

PTA 100 Introduction to Physical Therapist Assistant 1.5 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 340 with a grade of "C" or better
Hours: 27 hours LEC
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

Prerequisite: See enrollment limitations.
Advisory: AH 110 and LIBR 318
Enrollment Limitation: Enrollment into the Physical Therapist Assistant Program and completion of PTA 100, BIOL 430 & 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 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 A.A. Degree or higher.
Hours: 54 hours LEC
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 reflex 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 paper and project are required.

PTA 111 Kinesiology Laboratory for PTA Students 2 Units

Prerequisite: See enrollment limitations.
Corequisite: PTA 110
Enrollment Limitation: Enrollment into the Physical Therapist Assistant Program and completion of PTA 100, BIOL 430 & 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 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 A.A. Degree or higher.
Hours: 108 hours LAB
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

Prerequisite: PTA 110 and 111 with grades of "C" or better.
Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.
Hours: 45 hours LEC; 54 hours LAB
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 skills 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

Prerequisite: PTA 110 and 111 with grades of "C" or better
Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.
Hours: 54 hours LEC
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 data collection and physical therapy interventions 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

Prerequisite: PTA 110 and 111 with grades of "C" or better
Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.
Hours: 18 hours LEC; 112 hours LAB
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 Pass/No Pass basis.

PTA 130 Intermediate Procedures, Physical Therapy Modalities and Procedures 1 Unit

Prerequisite: PTA 120, 121, and 122 with grades of "C" or better
Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.
Hours: 9 hours LEC; 27 hours LAB
This course introduces the theory and application of massage, soft tissue mobilization techniques, biofeedback, and pneumatic compression pumps utilized by physical therapist assistants. Through laboratory practice and case-based learning activities, students 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

Prerequisite: PTA 130 with a grade of "C" or better
Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.
Hours: 36 hours LEC; 54 hours LAB
This course presents the basic principles of therapeutic exercise and implementation of therapeutic exercise procedures in physical therapy. Approaches to improve range of motion, strength, endurance, balance, coordination, and functional limitations are included. Theories of motor control and motor learning are introduced. Knowledge of kinesiology, medical disorders, and documentation is integrated as students apply therapeutic exercise principles to case-based learning activities that emphasize the role of the physical therapist assistant in implementing a comprehensive physical therapy treatment plan. One field trip is required.

PTA 141 Disorders II - Nervous System Disorders 2 Units

Prerequisite: PTA 130 with a grade of "C" or better
Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.
Hours: 36 hours LEC
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 data collection and interventions 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

Prerequisite: AH 100, AH 106, and PTA 130 with grades of "C" or better

Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.

Hours: 240 hours LAB

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, outpatient, skilled nursing and rehabilitation, or other type of physical therapy practice. Additionally, six seminar hours are required. The course is graded on a Pass/No Pass basis.

PTA 150 Functional Activities & Gait - Activities of Daily Living and Gait Training 3 Units

Prerequisite: PTA 140, PTA 141, and PTA 142 with grades of "C" or better.

Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.

Hours: 36 hours LEC; 54 hours LAB

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 interventions to include endurance training, pulmonary hygiene techniques, functional activities and gait, activities of daily living, developmental activities, management of prosthetics and orthotics, management of wheelchairs and other equipment, and client/family education.

PTA 151 Advanced Procedures- Advanced Modalities and Treatment Procedures 1 Unit

Prerequisite: PTA 140, 141, and 142 with grades of "C" or better

Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.

Hours: 9 hours LEC; 27 hours LAB

This course introduces theory and application of electrotherapeutic modalities utilized by physical therapist assistants. Topics include the use of electrical stimulation for pain management, muscle re-education, and tissue healing. Through case-based learning activities students integrate skills in data collection, electrotherapeutic modalities, and other interventions for implementation of a comprehensive physical therapy treatment plan.

PTA 152 Clinical Practicum II 4 Units

Prerequisite: PTA 140, 141, and 142 with grades of "C" or better

Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.

Hours: 240 hours LAB

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, outpatient, 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 Pass/No Pass basis.

PTA 153 Professional Issues in Physical Therapy 1 Unit

Prerequisite: PTA 140, 141, and 142 with grades of "C" or better

Enrollment Limitation: Enrollment in the Physical Therapist Assistant Program.

Hours: 18 hours LEC

This course addresses professional practice issues in physical therapy to include organizational structure, budget, time management, and social responsibility. Students review and integrate information on physical therapy practice and laws and regulations in preparation for the national examination, prepare a resume, and practice interview skills.

PTA 295 Independent Studies in Physical Therapist Assistant 1-3 Units

Prerequisite: None

Hours: 36 hours LEC; 54 hours LAB

This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among faculty and students.

PTA 299 Experimental Offering in Physical Therapist Assistant .5-4 Units

Prerequisite: None

Hours: 48 hours LEC; 72 hours LAB

This course will be an experimental offering on topics not yet covered by current Physical Therapist Assistant courses or an offering that addresses topics as they arise, such as those which relate to new physical therapy modalities, procedures, or professional issues. This course can be repeated for credit four times as long as there is no duplication of topics. Physics (PHYS)

Physics PHYS

Division of Science and Allied Health

Dr. 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

Prerequisite: None
Advisory: Math 34 (Pre-algebra) with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area IV; CSU Area B1; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course presents the physical laws that tie together the diverse phenomena of nature. This course uses a descriptive approach, with limited use of basic algebra, to increase the students' understanding of the everyday physical world.

PHYS 350 General Physics 4 Units

Prerequisite: High School Trigonometry or MATH 334 with a grade of "C" or better.
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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, agricultural, 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

Prerequisite: PHYS 350 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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, agricultural, 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

Prerequisite: None
Corequisite: MATH 401
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 55 hours LEC; 54 hours LAB ; 17 hours DIS
Topics covered include linear and rotational motion, Newton's laws, dynamics of rigid bodies, harmonic motion, and liquids. This course is for physics, mathematics, chemistry, architecture, and engineering majors.

PHYS 420 Electricity and Magnetism 5 Units

Prerequisite: MATH 401 and PHYS 410 with grades of "C" or better
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 55 hours LEC; 54 hours LAB ; 17 hours DIS
This 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 for physics, mathematics, chemistry, architecture, engineering, and computer science majors.

PHYS 430 Heat, Waves, Light and Modern Physics 5 Units

Prerequisite: PHYS 410 with a grade of "C" or better
Corequisite: MATH 402
General Education: AA/AS Area IV; CSU Area B1; CSU Area B3; IGETC Area 5A
Course Transferable to UC/CSU
Hours: 55 hours LEC; 54 hours LAB ; 17 hours DIS
Topics include 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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 54 hours LAB
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.

PHYS 495 Independent Studies in Physics 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

PHYS 499 Experimental Offering in Physics .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

Political Science POLS

Associate in Arts Degree

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

Political Science

Associate in Arts Degree
Program Information
Sacramento City College offers a unique political science experience that combines both the science and arts of politics that can only be appreciated in the heart of California's capital. Faculty provide a strong orientation to the world of politics by blending theory and real-world activities, which students will value throughout their academic and professional careers.

Career Opportunities
Completion of the degree will lead to professions in public or private sector in the areas of law, public relations, business, advocacy, lobbying, international relations, diplomacy, and academia. Completion of the degree will lead to opportunities in national, state, and local governments.

Upon completion of this program, the student will be able to:
- demonstrate an understanding of the fundamentals of political science and governance.
- examine and apply theories, concepts, and practices in political theory.
- demonstrate a knowledge of contemporary comparative systems and governments.
- analyze world politics and diplomacy in the international system.
- analyze, investigate, and compare ideological approaches to governmental systems.
- demonstrate knowledge of practical applications and evaluations of policy outcomes in civic culture.
- analyze political theory and concepts using critical thinking skills.
- research specific topics of discussion in local, state, national, and international politics.
- demonstrate knowledge of basic research methods and applications.
- apply appropriate technology in the field of political science.
- demonstrate knowledge and competence in writing, analysis, and preparation of media release.

Required Program **Units**

A minimum of 9 units from the following: 9
- POLS 301 Introduction to Government: United States (3)
- POLS 302 Introduction to Government: Foreign (3)
- POLS 310 Introduction to International Relations (3)
- POLS 480 Introduction to International Relations - Honors (3)
- POLS 481 Introduction to Government: United States - Honors (3)

A minimum of 6 units from the following: 6
- POLS 304 Introduction to Government: California (3)
- POLS 320 Introduction to Political Theory (3)
- POLS 322 Political Ideologies (3)
- POLS 340 Women in Politics (3)
- POLS 497 Internship in Political Science (1-4)

A minimum of 3 units from the following: 3
- HIST 310 History of the United States (3)
- HIST 311 History of the United States (3)

Total Units Required **18**

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.

Political Science (POLS)

POLS 301 Introduction to Government: United States 3 Units

Prerequisite: None
Advisory: ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area V(a); CSU Area D8; CSU Area F2; CSU Area F3; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course will examine principles and problems of government, the political process, and democracy as practiced in the United States. This course fulfills federal, state, and local government requirements.

POLS 302 Introduction to Government: Foreign 3 Units

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area V(b); CSU Area D8; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 304 Introduction to Government: California 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area V(a); CSU Area D8; CSU Area F3; IGETC Area 4
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course covers the essential organization, institutions, and processes of California state and local government.

POLS 310 Introduction to International Relations 3 Units

Prerequisite: None
Advisory: Eligibility for ENGWR 300
General Education: AA/AS Area V(b); CSU Area D8; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 312 Politics of the Middle East 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 100 with a grade of "C" or better, or ESLW 320 with a grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D8; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
Area Studies courses cover the government and politics of selected nations within a distinct geopolitical area of the world in order to provide understanding of the institutions and dynamics of the area. This Area Studies survey course is designed to give students an understanding of the Middle East and North Africa (MENA). It covers the region's history through the Ottoman Empire, colonialism, independence and the modern-day challenges of economic globalization and foreign intervention. The impact of economics, colonialism, struggles over natural resources, religious movements, social and cultural struggles, and ideology will be examined in the region on a country-by-country and regional basis. The question of Palestine and the Palestine-Israel conflict will be closely examined as a core issue in the politics of the region. The course includes an examination of dominant political institutions, actors, processes and grassroots movements within the context of political culture and history and an analysis of area political economy and foreign policy in an environment of global interdependence. Countries to be covered include, but are not limited to, Saudi Arabia, Iran, Egypt, Palestine, Israel, Jordan, Iraq, Syria, Lebanon, Libya, Tunisia, and Algeria. This course introduces students to the comparative politics of the Middle East and North Africa with a heavy emphasis on the political and economic roots of contemporary events.

POLS 313 Latin America 3 Units

Prerequisite: None
General Education: AA/AS Area V(b); CSU Area D8
Course Transferable to UC/CSU
Hours: 54 hours LEC
Area Studies courses cover the government and politics of selected nations within a distinct geopolitical area of the world in order to provide understanding of the institutions and dynamics of the area. This Area Studies survey course is designed to give students an understanding of past and contemporary Latin American politics. The impact of language, culture, religion, colonialism, neo colonialism, free market, ideology, revolutionary movements, conflict and resolution, and foreign and domestic policies will be examined in the region on a country-by-country basis. The course includes an examination of dominant political institutions, actors, processes, and belief systems within the context of political culture and an analysis of area political economy and foreign policy in the environment of global interdependence. Countries to be covered include but are not limited to Brazil, Mexico, Guatemala, Nicaragua, Venezuela, Peru, Bolivia, Colombia, Ecuador, Chile, Argentina, Uruguay, Cuba, Puerto Rico, Haiti, Jamaica, and the Dominican Republic. The course concludes with a summation of the region as it stands today and an assessment of where it is likely to go in the near future.

POLS 320 Introduction to Political Theory 3 Units

Prerequisite: None
Advisory: Eligibility for ENGWR 300
General Education: AA/AS Area V(b); CSU Area D8; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course examines 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

Prerequisite: None
Advisory: Eligibility for ENGWR 300 or ENGWR 100 or ESLR 320 and ESLW 320 is advised,
General Education: AA/AS Area V(b); CSU Area D8; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course will cover comparative, conceptual, and historical analysis 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

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320 is advised.
General Education: AA/AS Area V(b); CSU Area D4; CSU Area D8; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
Major topics covered in 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.

POLS 480 Introduction to International Relations - Honors 3 Units

Prerequisite: Admission to Honors Program required.
Advisory: Eligibility for ENGWR 300
General Education: AA/AS Area V(b); CSU Area D8; IGETC Area 4H
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. This honors section uses an intensive instructional methodology with extensive research projects on international institutions designed to challenge motivated students.

POLS 481 Introduction to Government: United States - Honors 3 Units

Prerequisite: None
General Education: AA/AS Area V(a); CSU Area D8; CSU Area F2; CSU Area F3; IGETC Area 4H
Enrollment Limitation: Eligibility for the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course will examine 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 honors section uses an intensive instructional methodology with extensive research projects on American institutions designed to challenge motivated students.

POLS 494 Topics in Political Science .5-4 Units

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

POLS 495 Independent Studies in Political Science 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

POLS 497 Internship in Political Science 1-4 Units

Prerequisite: None
Advisory: Concurrent enrollment in or completion of courses related to the major.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 75 hours LAB
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.

POLS 499 Experimental Offering in Political Science .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offerings

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.

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

Psychology
Associate in Arts Degree

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 para-professional 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.

Upon completion of this program, the student will be able to:
- differentiate between scientifically derived knowledge and myth and conjecture about the topics of psychology and demonstrate understanding of psychological theory and the scientific method.
- compare and contrast the major theoretical orientations in psychology, demonstrate knowledge of basic psychological terminology regarding behavior, cognition, and emotion, and be able to express this clearly when writing or speaking about psychology.
- integrate content knowledge, cognitive skills and technical proficiency in completing exams, term papers, presentations and other class assignments. These cognitive skills include: learning, memory, logical thinking, problem-solving, decision-making, and critical thinking.
- evaluate psychological data, draw reasonable conclusions, recognize the ethical implications of these conclusions, and apply these conclusions to personal, community, and scientific problems.
- apply psychological principles to the development of interpersonal, occupational and social skills and life-long personal growth.
- recognize the complexity of social, cultural, and international diversity and the principles of equity, justice and inclusion in their lives.

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**

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.

Psychology (PSYC)

PSYC 300 General Principles 3 Units

Prerequisite: None
Advisory: ENGRD 110, ENGWR 100, and/or LIBR 318 with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area V(b); CSU Area D9; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to the scientific study of human behavior. Students will be introduced 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, sensation, perception, states of consciousness, learning, memory, cognition, motivation, emotion, stress and health, personality, developmental psychology, psychological disorders, psychotherapy, and social psychology. This course is designed for psychology majors, behavioral and social science majors, and other students who desire a broad overview of the field.

PSYC 310 Biological Psychology 3 Units

Prerequisite: None
Advisory: Completion of ENGRD 310 and PSYC 300 with grades of "C" or better.
General Education: AA/AS Area IV; CSU Area B2; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 neural 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.

PSYC 311 Biological Psychology Laboratory 1 Unit

Prerequisite: PSYC 310 with grade of "C" or better or concurrent enrollment in PSYC 310.
General Education: AA/AS Area IV; CSU Area B3; IGETC Area 5B
Course Transferable to UC/CSU
Hours: 54 hours LAB
This course involves the applied study of the nervous system, focusing on its anatomy, physiology, biochemistry, and impact on behavioral and mental processes. This course will provide a foundation in the priniciples of the scientific method and practical experience in its application to the study of biological psychology. Specific 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 psychophysical examination of sensation and perception. Brain dissection procedures, interacive computer simulations, and lab experiments with data collection and analysis will be utilized.

PSYC 314 Animal Behavior 3 Units

Prerequisite: None
Advisory: ANTH 300, BIOL 100, or PSYC 300 with a grade of "C" or better
General Education: AA/AS Area IV; CSU Area D9
Course Transferable to CSU
Hours: 54 hours LEC
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.

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 IV; CSU Area D9; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 310 with a grade of "C" or better
General Education: AA/AS Area V(b); CSU Area D9; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: PSYC 300 and STAT 300 with grades of "C" or better; or PSYC 300 with a grade of "C" or better and concurrent enrollment in STAT 300.
Advisory: ENGWR 100 and LIBR 318 with grades of "C" or better
General Education: AA/AS Area II(b); CSU Area D9; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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 covers design and implementation issues of both experimental and non-experimental research, descriptive and inferential statistical analysis, hypothesis testing, and the use of APA writing style. The laboratory projects provide opportunities to research various behavioral science topics of the student's interest and experience "hands-on" data collection, data analysis, results interpretation, and report writing.

PSYC 340 Abnormal Behavior 3 Units

Prerequisite: PSYC 300 with a grade of "C" or better
Advisory: ENGRD 110 and/or ENGWR 50 with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area V(b); CSU Area D9; CSU Area E1; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Students will consider the contribution of social, biological and psychological factors to the development and persistence of behavior disorders.

PSYC 353 Psychology of Adjustment 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 50 with grades of "C" or better
General Education: AA/AS Area III(b); CSU Area D9; CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
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 behavioral change, attitudes and values, interpersonal relationships, and lifespan development.

PSYC 355 Love and Intimacy 2 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
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

Prerequisite: None
Advisory: ENGRD 310 or ENGWR 100 with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area III(b); CSU Area D9; CSU Area E1; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100 with grades of "C" or better.
General Education: AA/AS Area III(b); CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGRD 310 or ENGWR 100 with a grade of "C" or better, or placement through the assessment process.
General Education: AA/AS Area V(b); CSU Area D4; CSU Area D9; CSU Area E1; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
In this course, students will study 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

Prerequisite: None
Advisory: ENGRD 310, ENGWR 100, and PSYC 300 with grades of "C" or better, or placement through the assessment process.
General Education: AA/AS Area V(b); CSU Area D4; CSU Area D9; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGWR 50 or ENGRD 310 with a grade of "C" or better or placement through the assessment process."
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; CSU Area D9; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: FCS 324
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 V(b); CSU Area D9; CSU Area E1; IGETC Area 4G; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
Students will study the physical, cognitive, social, and emotional development of humans from conception through the life span. Emphasis will be placed on the theoretical and practical application of developmental principles. Topics include major developmental theories, conception and prenatal development, physical growth, health and development, language, learning, cognitive, and brain development, personality,morality, and emotional development, societal influences on development, and mental health, and an introduction to death and bereavement. 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 3 Units

Same As: FCS 332 and GERON 302
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100, or ESLR 340 and ESLW 340 and ESL 114, and FCS 324 or PSYC 370, and LIBR 318 with grades of "C" or better
General Education: AA/AS Area III(b); CSU Area D9; CSU Area E1; IGETC Area ; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
Students will explore the description and explanation of the evolution of adult behavior over the life span. Topics include theoretical as well as practical approaches to understanding aging in terms of physical, cognitive, and socio-emotional development such as: the study of the nature and changes of capabilities, skills, feelings, emotions, and social behavior with age, aging stereotypes, social bonds, environmental factors, sexuality, physical health, mental health, death and bereavement. (Credit for FCS 332 or PSYC 374 or GERON 302.)

PSYC 376 Personality 3 Units

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100 with grades of "C" or better and PSYC 300 or PSYC 353 with a grade of "C" or better.
General Education: AA/AS Area V(b); CSU Area D9; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 50 with grades of "C" or better
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D9; CSU Area E1; IGETC Area 4I
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area III(b); CSU Area D9; CSU Area E1
Course Transferable to CSU
Hours: 36 hours LEC
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 3 Units

Same As: ADMJ 303
Prerequisite: None
Advisory: ENGRD 310 with grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D9
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGRD 110, ENGWR 50, and PSYC 300 with grades of "C" or better, or placement through the assessment process.
General Education: AA/AS Area III(b); CSU Area E1
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGRD 110 or ENGWR 50 with grades of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC
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: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Advisory: LIBR 318 with a grade of "C" or better.
General Education: AA/AS Area V(b); CSU Area D9; IGETC Area 4I
Enrollment Limitation: Eligibility for the Honors Program.
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: ENGWR 100 with a grade of "C" or better; or placement through the assessment process.
Enrollment Limitation: Eligibility for the Honors program.
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

PSYC 495 Independent Studies in Psychology 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Independent Studies

PSYC 499 Experimental Offering in Psychology .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offerings

Railroad Operations RAILR

Associate in Science Degree

Certificate of Achievement

Department of Advanced Transportation Technology

Division of Advanced Technology

Donnetta Webb, Dean

Technology 106

916-558-2491

Railroad Operations

Associate in Science Degree
Certificate of Achievement
Program Information

This program is designed for students pursuing a career as a Railroad Conductor, Engineer or Manager of Train Operations.

Career Opportunities
Sacramento City College's Certificate of Achievement and degree program in Railroad Operations prepares students for an exciting and well-paying career. The more than five hundred 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 workforce to service, maintain, and manage this extensive transportation network.

Railroad Operations is an 18-unit, six-course program. The curriculum is approved by the Railroad Education and Training Education. In addition to normal student expenses, the Railroad Operations Program requires an additional expenditure of approximately $350.00 for protective clothing, work boots, and safety equipment. Contact the Financial Aid office for possible assistance before entering the program.

Recommended High School Preparation
English, mathematics, physics, electronics, mechanics, and computers.

Enrollment Limitations
To be eligible for enrollment in the program, the student must meet the following criteria: be a high school graduate or have obtained a GED; must have no criminal record; must have no moving violations within the last three years; must have no drug convictions; must be capable of lifting 90 pounds.

Upon completion of this program, the student will be able to:
- qualify for an interview for a Conductor, Engineer or Management Position.
- demonstrate the knowledge and skills appropriate for an entry level railroad position.
- demonstrate the knowledge and skills pertaining to industry history, careers, operations, safety, quality, environment, procedures, and operating rules.

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**

Associate in Science (A.S.) Degree
The Railroad Operations 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.

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

Railroad Operations (RAILR)

RAILR 100 History of Railroading 3 Units

Prerequisite: None
Hours: 54 hours LEC
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. There is an alternate learning site for this class at the California State Railroad Museum. Admission may be charged to enter the California State Railroad Museum. If this causes a financial hardship, please contact your instructor.

RAILR 102 Railroad Technical Careers 3 Units

Prerequisite: None
Hours: 54 hours LEC
This course includes information about technical careers in railroading, thereby, enabling student to choose suitable career paths. This course includes alternate learning sites that will demonstrate the relationship among technical work groups in day-to-day railroad operations. Students must provide their own transportation. 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

Prerequisite: None
Hours: 54 hours LEC
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

Prerequisite: None
Hours: 54 hours LEC
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 4 Units

Prerequisite: RAILR 120 and 122 with grades of "C" or better
Hours: 72 hours LEC
This course provides instruction in the use and application of railroad rules, timetables, general orders, track bulletins, track warrants, and train orders. The students will learn their interpretation, origin and use in the railroad industry. Students are required to pass the General Code of Operating Rules Examination with an 85 for the mid-term exam and will be required to write and re-write general orders, timetables, and rules. Students are required to purchase an account on etestmaker.com to take the required railroad rules examination. This course provides an in-depth study of the GCOR. Upon completion of this course, the students should be able to demonstrate abilities to apply the General Code of Operating Rules to safe and efficient train movement and operations. Special requirements - Students must pass the prerequisite courses before registering for this course. See an instructor about special requirements.

RAILR 142 Ground School 3 Units

Prerequisite: RAILR 120, RAILR 122, and RAILR 140 with grades of "C" or better. Pass grade for General Code of Operating Rules (GCOR).
Hours: 36 hours LEC; 54 hours LAB
This course provides for use and application of railroad rules, timetables, general orders, track bulletins, track warrants and train orders. The students 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 General Code of Operating 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 as a conductor on a minimum of one student trip and ride as an observer for an additional fifteen trips.

RAILR 144 Air Brakes 3.5 Units

Prerequisite: None
Advisory: RAILR 120 and 122
Hours: 54 hours LEC; 27 hours LAB
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

Prerequisite: None
Hours: 54 hours LEC; 162 hours LAB
See Topics in (Subject)

RAILR 295 Independent Studies in Railroad Operations 1-3 Units

Prerequisite: None
Hours: 54 hours LEC
See Independent Studies

RAILR 297 Internship in Railroad Operations 1-3 Units

Prerequisite: RAILR 142 with a grade of "C" or better.
Hours: 54 hours LEC; 54 hours LAB
Enrollment Limitations: Students are required to wear steel toe boots with defined heels, leather gloves, loose fitting jeans or coveralls, and head covers. The students must pass a Federal Railroad Administration Drug test prior to the first class and a Department of Transportation Physical requiring a Class I (one) back as defined by the American Medical Association as well as perfect color vision. Vision must be corrected to 20/20. Student must demonstrate strength in a doctor supervised setting including grip and muscle tone as to Class I specifications and general physical fitness that verifies a student's ability to lift 75 pounds.*This course provides on the job site use and application of railroad rules, timetables, general orders, track bulletins, and track warrants. The students will apply these in a working railroad setting, making up trains, and switching boxcars from switch lists and work orders. Students are required to show proof of passing the Railroad rules exam or successfully passing the exam within the first sixteen hours of scheduled course time as required by the Federal Railroad Administration. 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 brake systems, get on and off moving equipment up to 20 miles per hour, remove and apply knuckles of cars (knuckles weigh 75 pounds) and throw switches. This course will require the student to get on and off a train moving up to 20 miles per hour.

RAILR 299 Experimental Offering in Railroad Operations .5-4 Units

Prerequisite: None
Hours: 54 hours LEC; 108 hours LAB
See Experimental Offerings

Recreation RECR

Division of Physical Education, Health, and Athletics
Mitchell Campbell, Dean/Athletic Director
Hughes Stadium, Sections 1 and 3
916-558-2425

RECR 300 Introduction to Recreation and Leisure Services 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
This is an overview of recreation, park, and leisure services. This is a basic course that includes the nature, scope, and significance of leisure and recreation as a social force in today's society. There is a special emphasis placed on the role of the leader in recreational settings.

RECR 310 Outdoor Recreation 3 Units

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100 with grades of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This is an entry level course for recreation and similar majors. This course involves an orientation to resources for quality outdoor recreational experiences, management of people, job opportunities, trend, problems and issues in public and private outdoor recreation agencies. It provides an introduction of philosophies and operating procedures of outdoor recreation facilities within federal, state, and local government. To further enhance the learning experience, two field trips to outdoor recreational areas will be included.

RECR 499 Experimental Offering in Recreation .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 54 hours LAB
This is an experimental course offering designed to provide students with courses not normally offered in the Recreational area. Course topics will be structured around new and emerging issues related to the field of Recreation. This course may be taken four times for a maximum of 16 units.

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

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 systems function as well as for owners and potential owners who want to learn how to select, service, and maintain them.

Science

Associate in Science Degree

Division of Science and Allied Health

Dr. Mary Turner, Dean

Mohr Hall 18

916-558-2271

Science

Associate in Science Degree

Program Information
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

Associate in Science (A.S.) Degree
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.

Note: Completion of this major program does not equate to the completion of the lower division major preparation at four-year institutions. Please consult with a counselor.

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

Prerequisite: None
General Education: AA/AS Area I; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This is the beginning course in a series of four courses in the visual-gestural processes of American Sign Language (ASL). It provides instructional activities for students to become competent in communication with deaf people. The emphasis is on non-speech communication.

SILA 306 American Sign Language 2 4 Units

Prerequisite: SILA 305 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This is the second in a series of four courses in American Sign Language. The emphasis is on nonverbal communication. Topics presented include grammatical features such as adjective descriptors, differentiation between cardinal/ordinal numbers, contrastive structure, temporal aspect markers, and temporal sequencing.

SILA 315 American Sign Language 3 4 Units

Prerequisite: SILA 306 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Area 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This course is the third in a series of four courses in American Sign Language. It emphasizes expressive and receptive nonverbal communication skills between signers who have preliminary American Sign Language syntactical and lexical skills. It provides an understanding of deaf cultural processes by identifying behaviors and norms from activities assigned in the course. It also includes dialogs that involve asking, empathizing, negotiating, and agreeing or disagreeing.

SILA 316 American Sign Language 4 4 Units

Prerequisite: SILA 315 with a grade of "C" or better
General Education: AA/AS Area I; CSU Area C2; IGETC Areas 3b and 6
Course Transferable to UC/CSU
Hours: 72 hours LEC
This is the final course in a series of four courses in American Sign Language. It emphasizes expressive communication skills that involve sharing interesting facts, talking about money, making major life decisions, and narrating unforgettable moments. It incorporates information and activities previously learned about Deaf into these narratives.

SILA 330 Impact of Deafness 3 Units

Prerequisite: None
General Education: CSU Area D; IGETC Area 4
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a survey of four institutions that have critical impact on the psycho-social development of Deaf people: family, education, work, and society. It provides awareness and sensitivity to the unique challenges of deafhood and how they influence personal-social and communication competencies of the Deaf person. Selected visits to community events may be required.

SILA 332 Educating Deaf People 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
This is a survey course of topics related to educating deaf children, adults, and multi-handicapped individuals. It also covers teaching methods and philosophies, school placement issues, child development, and methods of addressing developmental and linguistic stages. Selected visits to deaf school in Fremont, mainstreaming/deaf program school at local may be required.

SILA 334 Sign Language for Educators 1 Unit

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
This course provides techniques for educators to use in facilitating communication with deaf and hard of hearing children. Topics to be discussed include but are not limited to: education options for deaf and hard of hearing children; introduction to American Sign Language and fingerspelling; appropriate uses of ASL and fingerspelling in the classroom; history of teaching methods and philosophies for teaching deaf and hard of hearing children; legal and cultural aspects of deaf education; community resources for the deaf; the role of educational interpreters.

SILA 336 Sign Language for Health Care Personnel and Health Care Students 1 Unit

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC
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.

SILA 495 Independent Studies in Sign Language Studies 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Independent Studies

SILA 499 Experimental Offering in Sign Language Studies .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC
See Experimental Offerings

Social Sciences

Associate in Arts Degree

SOCSC

Division of Behavioral and Social Sciences

J. Frank Malaret, Dean

Rodda North 226

916-558-2401

Social Sciences
Associate in Arts Degree

Program Information
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
or PHIL 300, Introduction to Philosophy

Associate in Arts (A.A.) Degree
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.

Social Sciences (SOCSC)

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 Area V(b); AA/AS Area VI; CSU Area D3; IGETC Area 4C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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
Prerequisite: None
Advisory: Successful completion of ENGWR 100 or ESLW 340 with grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; IGETC Area 4C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

SOCSC 325 Asian Experience in America 3 Units
Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; IGETC Area 4C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; IGETC Area 4C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a "C" grade or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; IGETC Area 4C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Successful completion of ENGWR 100 (College Writing) or ESLW 340 (Advanced Composition) with a grade of "C" or better
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; IGETC Area 4C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Successful completion of ENGWR 100 (College Writing) or ESLW 340 (Advanced Composition) with a grade of "C" or better
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D3; IGETC Area 4C
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D4; IGETC Area 4D
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: SOC 345
Prerequisite: None
Advisory: Eligibility for ENGRD 110 and ENGWR 100 or ESLW 340 and ESLR 340.
General Education: AA/AS Area V(b); CSU Area D4; IGETC Area 4D; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 classes. Consultation with the instructor is required prior to enrollment. That will generally take place during the first week of class.
Course Transferable to CSU
Hours: 18 hours LEC
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
Advisory: ENGWR 100 with a grade of "C" or better or ESLR 320 and ESLW 320 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 72 hours LEC
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 four times for different topics.

SOCSC 495 Independent Studies in Social Science 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LAB
See Independent Studies

SOCSC 499 Experimental Offering in Social Science .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offerings

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.

Upon completion of this program, the student will be able to:
- articulate the sociological perspective on human behavior.
- compare and contrast the major theoretical orientations in sociology.
- articulate the role of theory and social research methods in sociology.
- evaluate data, draw reasonable conclusions, and apply these conclusions to personal, community, and societal-level problems.
- explain how the science of sociology produces knowledge about society, social interaction, and human behavior.
- integrate content knowledge and cognitive skills, i.e., logical thinking, problem-solving, and critical reasoning, when completing exams, term papers, and additional class assignments.
- apply sociological principles that contribute to the foundation for life-long personal growth and development of effective interpersonal and social skills.
- apply sociological principles to education, employment, and everyday life.

Required Program	**Units**
SOC 300 Introductory Sociology (3)	3
or SOC 480 Introductory Sociology (Honors) (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:	3
SOC 305 Critical Thinking in the Social Sciences (3)	
FCS 320 Marriage and the Family (3)	
or SOC 310 Marriage and the Family (3)	
SOC 344 Sociology of Women's Health (3)	
SOC 343 Women and Social Action (3)	
FCS 326 Sex and Gender in the U.S. (3)	
or SOC 341 Sex and Gender in the U.S (3)	
GERON 300 Sociology of Aging (3)	
or FCS 330 Sociology of Aging (3)	
or SOC 335 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)	
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.

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.

Transfer 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. Students should see a counselor regarding academic planning.

Sociology (SOC)

SOC 99 Workplace Success: A Sociological Map to Succeeding in the Workplace 3 Units

Same as HCD 99
Prerequisite: None
Hours: 108 hours LEC
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
Hours: 9 hours LEC
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
Hours: 9 hours LEC
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

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 Area V(b); CSU Area D0; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 Area V(b); CSU Area D0; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better, or the equivalent
General Education: AA/AS Area V(b); AA/AS Area II(b); CSU Area A3; IGETC Area 1B
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: FCS 320
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 V(b); AA/AS Area III(b); CSU Area D7; CSU Area E1; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: ECE 314 and FCS 314
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 340 and ESLW 340 and ESL 114; and FCS 312 or ECE 312; and LIBR 318 with grades of "C" or better
General Education: AA/AS Area V(b); AA/AS Area III(b); CSU Area D0; CSU Area D7; CSU Area E1; IGETC Area 4G; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an examination of the developing child in a societal context focusing on the interrelationship of family, school, and community and emphasizing historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. 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. (Students may receive credit for ECE 314, FCS 314, or SOC 312, maximum one course.)

SOC 321 Race, Ethnicity and Inequality in the United States 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 or ESLW 340 and ESLR 340 with a C or better.
General Education: AA/AS Area V(b); AA/AS Area VI; CSU Area D0; CSU Area D3; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: ENGRD 310 or ENGWR 100 with a grade of C or better.
General Education: AA/AS Area VI; CSU Area D7; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 3 Units

Same As: FCS 330 and GERON 300
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 V(b); AA/AS Area III(b); CSU Area D0; CSU Area E1; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. 3 Units

Same As: FCS 326
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 V(b); CSU Area D0; CSU Area D4; CSU Area E1; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 V(b); CSU Area D1; CSU Area D4; IGETC Area 4D; IGETC Area 4J
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

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 Area V(b); AA/AS Area III(b); CSU Area D4; CSU Area E1; IGETC Area 4D
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 V(b); CSU Area D4; IGETC Area 4D; IGETC Area 4G
Course Transferable to UC/CSU
Hours: 54 hours LEC
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. Students can take either SOC 345 or SOCSC 352 for credit, but not both.

SOC 375 Introduction to Community Development 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 340 with a grade of "C" or better.
General Education: AA/AS Area V(b); CSU Area D0
Course Transferable to CSU
Hours: 54 hours LEC
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 376 Community Development: Implementation and Sustainability 3 Units

Prerequisite: For Level 1 (Early Implementation Skills): SOC 375 with a grade of "C" or better, or equivalent experience working in the field of community development; For Level 2 (Advanced Implementation Skills): Completion of Level 1 coursework with a grade of "C" or better, or equivalent experience working in the field of community development; For Level 3 (Sustainability Skills): Completion of Level 2 coursework with a grade of "C" or better, or equivalent experience working in the field of community development.
Advisory: ENGWR 100 or ESLW 340 or equivalent with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
This course builds on the concepts introduced in SOC 375, Introduction to Community Development, with an emphasis on implementation and sustainability. Students will learn about policy, funding, legislation, public relations, and other strategic interventions essential to effective social action. Emphasis will be placed on the asset-based community development approach to mobilizing communities. Level 1 coursework (Early Implementation Skills) is designed to teach students the skills they will need for the early stage of implementing programs, e.g. the administration of social change organizations, funding strategies, how to conduct social mobilization campaigns, how to maintain a balance between compromise and confrontation, and public relations strategies. Level 2 coursework (Advanced Implementation Skills) will teach students the more advanced skills necessary to begin the institutionalization of programs, e.g. how to influence public policy, how to influence the public sector, legal strategies, and evaluation techniques. Level 3 coursework (Sustainability Skills) will teach the skills required to sustain programs over the long term, e.g. building capacity, introducing and gaining support for legislative initiatives, establishing and maintaining coalitions, and addressing underlying economic issues. This course may be taken three times for credit, provided it is taken at a different level each time.

SOC 380 Introduction to Social Services 3 Units

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 V(b)
Course Transferable to CSU
Hours: 54 hours LEC
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

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 V(b)
Course Transferable to CSU
Hours: 54 hours LEC
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 1-4 Units

Prerequisite: None
Advisory: ENGWR 100 with a grade of "C" or better.
General Education: AA/AS Area V(b) (maximum 1 unit)
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
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. Course content will include completion of Title V Education Code papers (the student's Application, Time-sheet, Letter of Cooperation, Objectives and Evaluations) which document the students hours and work spent at the internship site. In addition, the student is required to fulfill 18 hours lecture (online or face-to-face formats) and 75 hours of instructor-approved paid work or 60 hours of volunteer work for one unit; the student will receive one additional unit for each segment of 75 paid hours or 60 volunteer hours of instructor-approved work.
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

Prerequisite: None
General Education: AA/AS Area V(b); CSU Area D0; IGETC Area 4J
Enrollment Limitation: Eligibility for the Honors Program
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
Advisory: SOC 300 and ENGRD 310 and ENGWR 100 or ESLR 340 and ESLW 340, with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 72 hours LEC
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.

SOC 495 Independent Studies in Sociology 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Independent Studies

SOC 499 Experimental Offering in Sociology .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 75 hours LAB
See Experimental Offerings

Statistics STAT

Division of Mathematics/Statistics & Engineering
Anne E. Licciardi, Dean
South Gym 220
916-558-2202

STAT 300 Introduction to Probability and Statistics 4 Units

Prerequisite: MATH 120 or 124 with a grade of "C" or better; or placement through the assessment process.
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 72 hours LEC
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

Prerequisite: MATH 120 with a grade of "C" or better, or eligibility as determined by the assessment process. Eligibility for admission to the Honors Program.
General Education: AA/AS Area II(b); CSU Area B4; IGETC Area 2
AA/AS: Mathematics Competency
Course Transferable to UC/CSU
Hours: 72 hours LEC
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. This honors course uses an intensive methodology designed to challenge motivated students.

STAT 495 Independent Studies in Statistics 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
This is an independent studies course. The topics are to be arranged between the instructor and the student.

STAT 499 Experimental Offering in Statistics .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
See Experimental Offering

Note: Business Statistics-See ECON 310 under Economics

Student Government SGVT

Student Leadership and Development
To Be Announced
South Gym 226
916-558-2194

SGVT 300 Introduction to Student Government 2 Units

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC; 54 hours LAB
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.

SGVT 499 Experimental Offering in Student Government .5-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 54 hours LEC; 36 hours LAB
See Experimental Offerings

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

Theatre Arts and Film TA

Associate in Arts Degree

Acting-Directing Emphasis

Technical Production Emphasis

Film, Degree

Film Production, Certificate of Achievement

Film Studies, Certificate of Achievement

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Theatre Arts - Acting-Directing Emphasis

Associate in Arts Degree

Program Information
This program provides students an understanding of the overall process by which theatre is produced, including the theories and techniques of acting, directing, playwriting, and the elements of technical theatre. It also provides an overview of the historical and social context of the theatre. Transfer students should consult the Requirements of the 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.>

Upon completion of this program, the student will be able to:
- recognize standard practices of ensemble playing in a rehearsal/performance environment.
- compare and analyze the theories and techniques of acting and/or directing from a historical perspective.
- analyze texts and scripts as they pertain to performance.
- demonstrate skill for technical aspects of acting, including physical, vocal, imaginative, analytical, and emotional elements.
- demonstrate skill for directing acting, including text analysis, staging, actor coaching, and design.
- analyze theatre as a dynamic art form influencing society.
- compare and contrast theatrical periods and styles in terms of acting, directing, playwriting, and technical elements.
- analyze the components of a theatrical production.
- apply imagination and character analysis to identify and describe the personality and motivations of a given character.
- apply technical processes, including lighting, set, costume, and/or stage make-up design, as they pertain to a given dramatic script.

Required Program	**Units**
A minimum of 21 units from the following:	21
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 420 Stagecraft (3)	
or TA 422 Stage Lighting (3)	
A minimum of 9 units from the following:	9
TA 308 Diversity in American Theatre (3)	
TA 339 Screenwriting (3)	
TA 356 Acting for the Camera I (3)	
TA 360 Styles of Acting (3)	
TA 364 Shakespeare Without Fear (3)	
TA 370 Theatre Movement (2)	
TA 395 Playwriting (3)	
TA 407 Children's Theatre (0.5 - 3)	
TA 423 Introduction to Scene Design for the Stage (3)	
TA 437 Stage Make-up I (2)	
TA 452 One-Act Play Workshop (3)	
TA 454 Race & Ethnicity in Performance I (3)	
TA 455 Race & Ethnicity in Performance II (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)	
TA 466 Rehearsal and Performance - Musical Ensemble (0.5 - 3)	
TA 477 Fundamentals of Repertory Production (1 - 3)	
Total Units Required	**30**

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.

Theatre Arts - Technical Production Emphasis

Associate in Arts Degree

Program Information
This program provides the student with an understanding of the process by which theatre is produced from a technical standpoint, including scenic design, lighting design, costuming, sound design, and make-up design, and the application of these designs. It also provides an overview of the other processes that are involved in the production of theatre, such as acting, directing, and playwriting; and of the historical and social context of the theatre. Transfer students should consult the Requirements of the 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.

Upon completion of this program, the student will be able to:
- assess the influence of theatre as a dynamic art form and a social and cultural force in our society.
- compare theatrical periods and styles in terms of acting, directing, playwrighting, and technical elements.
- analyze the components of a theatrical production and the role of technical theatre in the production process.
- evaluate a script, assess production requirements, and develop practical and artistic solutions through scenic, lighting, costume, sound, or makeup designs.
- integrate practical information from construction plans.
- demonstrate proficiency in technical production skills.
- evaluate tools, materials, and processes used in technical theatre work.

Required Program **Units**

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 420 Stagecraft (3)
- TA 422 Stage Lighting (3)

A minimum of 6 units from the following: 6
- TA 331 Film Making (3)
- TA 332 Film-Making Projects (3)
- TA 423 Introduction to Scene Design for the Stage (3)
- TA 430 Costume Construction (3)
- TA 437 Stage Make-up I (2)
- TA 407 Children's Theatre (0.5 - 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)
- TA 466 Rehearsal and Performance - Musical Ensemble (0.5 - 3)

A minimum of 3 units from the following: 3
- TA 308 Diversity in American Theatre (3)
- TA 356 Acting for the Camera I (3)
- TA 360 Styles of Acting (3)
- TA 364 Shakespeare Without Fear (3)
- TA 370 Theatre Movement (2)
- TA 339 Screenwriting (3)
- TA 395 Playwriting (3)
- TA 452 One-Act Play Workshop (3)
- TA 454 Race & Ethnicity in Performance I (3)
- TA 455 Race & Ethnicity in Performance II (3)

A minimum of 3 units from the following: 3
- TA 407 Children's Theatre (0.5 - 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)
- TA 466 Rehearsal and Performance - Musical Ensemble (0.5 - 3)

Total Units Required **30**

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.

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.

Theatre Arts, Film

Associate in Arts Degree

Program Information
The Film degree will provide the opportunity for a core foundation in various aspects of film history, diversity and production. Students can learn the collaborative nature of filmmaking through classroom presentations and hands-on crew experiences. The process allows students to develop skills in all areas of the craft while exploring both the creative and technical aspects of production. Students learn an appreciation of film as a medium of communication. This degree provides lower division preparation for transfer to a baccalaureate degree in this field.

Career Opportunities
Skills learned in this program could lead to employment in the following fields:

Production Management, Camera (i.e. Director of Photography, Camera Operator), Lighting (i.e. Rigger, Lighting Technician), Sound (i.e. Production Mixer, Boom Operator), Grip, Set Decoration, Production Design, Props, Make-Up, Film Editing, Acting, and Directing.

Upon completion of this program, the student will be able to:
- explain the development of film and the art of filmmaking.
- compare and contrast different cinematic styles and structures.
- analyze films for their effective use of visual techniques
- formulate an independent and critical aesthetic perspective on the cinema.
- develop and apply film production elements to independent projects.
- exhibit fundamental skills necessary to obtain employment in the film industry.
- fulfill various requirements for transfer to a baccalaureate degree program in this field.

Required Program	**Units**
TA 310 Introduction to Film (3	3
or ENGLT 400 Introduction to Film (3)	
TA 312 History of Film	3
TA 318 Diversity in American Film	3
TA 320 Cinema Genres	3
TA 356 Acting for the Camera I	3
TA 331 Film Making (3)	3
TA 332 Film-Making Projects	3
A minimum of 9 units from the following:	9
TA 333 Film Editing with Final Cut Pro (3)	
TA 339 Screenwriting (3)	
TA 420 Stagecraft (3)	
TA 422 Stage Lighting (3)	
TA 430 Costume Construction (3)	
TA 437 Stage Make-up I (2)	
TA 438 Stage Make-up II (2)	
ENGLT 401 Women in Film and Literature (3)	
ENGLT 403 Film Adaptations (3)	
MUSM 322 Introduction to Film Music (3)	
MUSM 340 Introduction To Desktop Audio (1)	
MUSM 342 Recording Studio Techniques (3)	
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)	
Total Units Required	**30**

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.

Theatre Arts, Film Production
Certificate of Achievement

Program Information
The Film certificate will provide the opportunity for a core foundation in various aspects of film production. The collaborative nature of filmmaking will be taught through classroom presentations and hands-on crew experiences. The process allows students to explore both the creative and technical aspects of production. Students learn an appreciation of film as a medium of communication. This certificate focuses on hands-on production and the understanding of the film making process.

Career Opportunities
Skills learned in this program could lead to employment in the following fields:

Production Management, Camera (i.e. Director of Photography, Camera Operator), Lighting (i.e. Rigger, Lighting Technician), Sound (i.e. Production Mixer, Boom Operator), Grip, Set Decoration, Production Design, Props, Make-Up, Film Editing, Acting, and Directing.

Upon completion of this program, the student will be able to:
- explain the development of film and the art of filmmaking.
- compare and contrast different cinematic styles and structures.
- analyze films for their effective use of visual techniques
- formulate an independent and critical aesthetic perspective on the cinema.
- develop and apply film production elements to independent projects.
- exhibit fundamental skills necessary to obtain employment in the film industry

Required Program	**Units**
TA 312 History of Film	3
TA 331 Film Making	3
TA 332 Film-Making Projects	3
A minimum of 9 units from the following:	9
TA 333 Film Editing with Final Cut Pro (3)	
TA 339 Screenwriting (3)	
TA 420 Stagecraft (3)	
TA 422 Stage Lighting (3)	
TA 430 Costume Construction (3)	
TA 437 Stage Make-up I (2)	
TA 438 Stage Make-up II (2)	
MUSM 322 Introduction to Film Music (3)	
MUSM 356 Pro Tools 101, Introduction to Pro Tools (1.5)	
MUSM 366 Pro Tools 201, Advanced Pro Tools (1.5)	
MUSM 367 Audio for Video Post Production (1.5)	
TA 356 Acting for the Camera I (3)	
Total Units Required	**18**

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

Theatre Arts, Film Studies
Certificate of Achievement

Program Information
The Film certificate will provide the opportunity for a core foundation in various aspects of film history, diversity, appreciation, and production. The collaborative nature of filmmaking will be taught through classroom presentations and hands-on crew experiences. The process allows students to explore both the creative and technical aspects of production. Students learn an appreciation of film as a medium of communication. This certificate focuses on the analytical understanding of the film making process rather than on hands-on production.

Career Opportunities
Skills learned in this program could lead to employment in the following fields:

Production Management, Director, Assistant Director, Production Researcher, Film Critic, Acting.

Upon completion of this program, the student will be able to:
- describe the development of film and the art of filmmaking.
- compare and contrast different cinematic styles and structures.
- analyze films for their effective use of visual techniques.
- formulate an independent and critical aesthetic perspective on the cinema.
- exhibit fundamental skills necessary to obtain employment in the film industry.
- develop and apply film production elements to independent projects.

Required Program	**Units**
TA 310 Introduction to Film (3)	3
or ENGLT 400 Introduction to Film (3)	
TA 312 History of Film	3
TA 318 Diversity in American Film	3
A minimum of 9 units from the following:	9
TA 320 Cinema Genres (3)	
TA 339 Screenwriting (3)	
ENGLT 401 Women in Film and Literature (3)	
ENGLT 403 Film Adaptations (3)	
TA 332 Film-Making Projects (3)	
or TA 331 Film Making (3)	
MUSM 322 Introduction to Film Music (3)	
Total Units Required	**18**

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

Theatre Arts (TA)

TA 300 Introduction to the Theatre 3 Units
Prerequisite: None
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This audience-oriented, non-performance course focuses on the study of theatre and its relationship to: 1) the cultures and societies who create theatre; 2) to other entertainment media such as film and television; and 3) audience development. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles, and genres of theatre through play reading, discussion, films, and viewing and critiquing live theatre, including a required field trip to a play at a professional or community theatre.

TA 302 History and Theory of the Theatre I 3 Units
Prerequisite: None
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a study of the masterpieces of World Theatre from the Greeks to the Nineteenth Century. Lectures include the historical and cultural environment out of which the plays were written and an analysis of plays from a variety of viewpoints including their historical moment and their lasting impact upon a contemporary audience. The course will also include an investigation into the synergy of theatrical performance and theatre architecture development and the continuing impact of these issues on a contemporary audience. Students are required to see three on-campus stage productions during the semester.

TA 303 History and Theory of the Theatre II 3 Units
Prerequisite: None
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a study of the principal types of twentieth century theatre. Lectures include the historical and cultural environment out of which the plays were written and an analysis of plays from a variety of viewpoints including their historical moment and their lasting impact upon a contemporary audience. The course will also include an investigation into the synergy of theatrical performance and theatre architecture development and the continuing impact of these issues on a contemporary audience. Students are required to see three on-campus stage productions during the semester.

TA 308 Diversity in American Theatre 3 Units

Prerequisite: None
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
This non-performance course is an introduction to American cultural diversity in theatre. The course will focus on the cultures of Asian/Pacific Americans; Black/African Americans; Chicano/Latino/Hispanic Americans; Native Americans; and recent immigrant groups, as expressed in dramatic literature. The social, cultural, and political conditions that shaped these works will also be discussed. Issues of class, gender, and sexuality will be examined and compared cross-culturally. Topics will be covered through readings, lectures, discussions, and attendance at live play productions, including a required field trip to a play at a professional or community theatre.

TA 310 Introduction to Film 3 Units

Same As: ENGLT 400
Prerequisite: ENGWR 50 and ENGRD 11 or ESLR 310 and ESLW 310 with grades of "C" or better or placement through the assessment process.
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: AA/AS Area I; CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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.

TA 314 History of Film: 1880's through 1950's 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with grades of "C" or better; OR ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Area I
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a historical and critical survey of film as an art form. It emphasizes the evolution of artistic and technical facets of production in features, documentaries, and experimental films. Focusing on films from the 1880's through 1950's.

TA 315 History of Film: 1950's to Present 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 with grades of "C" or better; OR ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: AA/AS Area I
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is a historical and critical survey of film as an art form. It emphasizes the evolution of artistic and technical facets of production in features, documentaries, and experimental films. Focusing on films from the 1950's to present.

TA 318 Diversity in American Film 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 110 or ESLR 320 and ESLW 320 with grades of "C" or better, or placement through assessment process.
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1; CSU Area C2; IGETC Area 3B
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course is an introduction to cultural diversity as it is expressed in American film. The course will focus on the cultures of Asian/Pacific Americans, Black/African Americans, Chicano/Latino/Hispanic Americans, Native Americans, and recent immigrant groups, as expressed in film narrative, production practices, and critical responses. Issues of class, gender, and sexuality will be examined and compared cross-culturally. Media stereotypes and their social, political, and cultural origins and the responses to these stereotypes by 20th & 21st century film makers will be examined through film viewings, lecture, and discussion.

TA 320 Cinema Genres 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better.
General Education: CSU Area C1; IGETC Area 3A
Course Transferable to UC/CSU
Hours: 54 hours LEC
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 genres change.

TA 322 An American Musical: Stage and Film 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course studies the transition of the Musical from its earliest incarnation to the latest Broadway and box office hits. This class will examine both production films (movies made of stage productions) and feature films to examine how the theatrical techniques of the Musical have been translated to the media of film.

TA 323 From Stage to Screen, Production Design and Art Direction 3 Units

Prerequisite: None
General Education: AA/AS Area I
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course will examine the aesthetic design of films by looking at costume, scenery, and prop design. Students will evaluate how the production design of a film helps to shape all of the other elements that make up the film. Students will examine how production design has been utilized to show the past, present, and future as well as imaginary time periods. This course will draw upon theatrical design techniques and evaluate how those techniques have been used in film production.

TA 331 Film Making 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 72 hours LAB
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, tilting, 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.

TA 332 Film-Making Projects 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 72 hours LAB
This course will give 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.

TA 333 Film Editing with Final Cut Pro 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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 334 Film Editing with Final Cut Pro: Intermediate Workshop 3 Units

Prerequisite: TA 333 with a grade of "C" or better
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course is designed for experienced users or those wishing to increase their overall Final Cut Pro knowledge. This course delves into the details of such topics as compositing, power trimming, media management, color keying, audio finishing, color correction, and much more. Instruction also covers tips, tricks, and other secrets that allow participants to master the finer points of this powerful program.

TA 335 Introduction to DVD Production: iDVD & DVD Studio Pro 3 Units

Prerequisite: or the equivalent.
Advisory: TA 333; GCOM 330 with a grade of "C" or better.
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course examines the history and future of the DVD video format after the most successful launch ever of a consumer electronics format. Students learn how to design, produce, and burn a DVD on a personal computer. Students explore the methods of integrating video, audio, text, graphics, and user interactivity through the use iDVD and DVD Studio Pro software. Students explore DVD's ability to integrate with the Internet. Students use a professional approach to real world DVD production processes. Students are expected to already have exposure to Adobe Photoshop and Apple Final Cut Pro. This course may be taken two times using different software or software versions.

TA 336 Introduction to Motion Graphics for Film: Apple Motion 3 Units

Prerequisite: None
Advisory: GCOM 330 and TA 333; with a grade of C or better and Basic knowledge of the Macintosh OS
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This hands-on course will familiarize students with Motion, Apple¿s revolutionary software for motion graphics design. The course comprehensively covers working with Motion¿s Real-Time Design engine and interface, behavior-based animation, parameter behaviors, blend modes, advanced particle system design, advanced title animation, working with templates, chroma key techniques, masking methods, DVD motion menu design, tablet-driven gesture UI techniques, working with audio, keyframing, and integration. This course may be taken two times using different software or software versions.

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.
Course Transferable to CSU
Hours: 54 hours LEC
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: TA 350 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 54 hours LEC
This course includes the application of acting theories and techniques to the scripts of realistic drama. Memorized acting scenes are presented in the classroom. The course is designed for majors in theatre arts and communication.

TA 356 Acting for the Camera I 3 Units

Prerequisite: TA 350 or 351 with a grade of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
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

Prerequisite: TA 350 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course will provide an investigation of styles of acting through lectures and prepared scenes from representative classic and modern plays and one-act plays.

TA 364 Shakespeare Without Fear 3 Units

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310 with grades of "C" or better, or ESLR 320 and ESLW 320 with grades of "C" or better.
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 54 hours LEC
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

Prerequisite: None
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
This course is an active participation and performance experience designed to provide opportunities in discovery and solving movement tasks of the actor. The course incorporates exercises to expand the individual's movement for characters and scenes, as well as training in specific movement areas, such as combat, period style, and dance.

TA 395 Playwriting 3 Units

Prerequisite: None
Advisory: ENGWR 100 or ESLW 340 with a grade of "C" or better.
Course Transferable to CSU
Hours: 54 hours LEC
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 a full-length play by the end of the semester.

TA 404 Techniques of Puppetry 3 Units

Prerequisite: None
Advisory: ENGWR 50 and ENGRD 110, or ESLW 310 and ESLR 310, with grades of "C" or better, or placement through assessment.
General Education: CSU Area C1
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This course explores puppetry as a dramatic medium. Topics to be covered include history and development of puppetry; puppet design and creation; puppet manipulation and improvisation; and puppet play production techniques and applications.

TA 407 Children's Theatre .5-3 Units

Prerequisite: None
Enrollment Limitation: Audition.
Course Transferable to CSU
Hours: 162 hours LAB
This course is open to students participating in theatrical productions. 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.

TA 420 Stagecraft 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 72 hours LAB
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

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 72 hours LAB
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 423 Introduction to Scene Design for the Stage 3 Units

Prerequisite: TA 420 with a grade of "C" or better
Course Transferable to UC/CSU
Hours: 36 hours LEC; 72 hours LAB
This course will cover the techniques and procedures in application of design, color, and perspective in designing scenery for the stage. It will consist of developing floor plans; methods of pictorial representation of ideas, scale drawings, color perspective, and models.

TA 430 Costume Construction 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course explores the basic areas of costume construction: fabrics, color, patterns, sewing techniques, costume pieces, and accessories. Period styles, costume analysis, and basic design are also covered. Costume construction will be for theatrical productions. Students gain experience by constructing costumes for theatrical productions.

TA 436 Historic Costuming 3 Units

Same As: FASHN 335
Prerequisite: None
Advisory: ENGRD 110 and ENGWR 100; or ESLR 320 and ESLW 320; or ESL 114; FASHN 140 and FASHN 150 and LIBR 318 and MATH 34 with grades of "C" or better.
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
The impact of social, political, cultural, and economic issues on costume is explored from the cradle of civilization through modern times. Specific periods of fashion are researched to design and construct historically correct garments. Students will learn how to apply the principles of modern pattern making to various historical styles and use this knowledge to design and create historical costumes. The unique cut and construction of each historical period is covered, from undergarments to accessories for each fashion period. Students will learn to create necessary adaptations to these garments for successful stage applications. One field trip is required. This course may be taken four times providing there is no duplication of topics.

TA 437 Stage Make-up I 2 Units

Prerequisite: None
General Education: CSU Area C1
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
The course includes the analysis of basic techniques of stage make-up. The course explores the use of make-up materials, color, light, and modeling techniques in the development of make-up designs. The student will develop make-up designs for different characters from plays, including historical figures, stylized characters, fantasy characters, animals, and characters of all ages. The course is recommended for drama majors.

TA 438 Stage Make-up II 2 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 18 hours LEC; 54 hours LAB
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. Students will work in small groups to allow for more student-contact time and more advanced instruction.

TA 440 Arts Management 3 Units

Prerequisite: None
Course Transferable to CSU
Hours: 36 hours LEC; 54 hours LAB
This is a general survey course in arts management with emphasis on organization, marketing/development, and financial management. Field work and field trips will include projects with an existing arts organization.

TA 452 One-Act Play Workshop 3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC; 54 hours LAB
This course explores the play production process. Class members collaborate in the analysis, preparation and production of one-act plays through participation as either directing writers, actors, or technicians. The process culminates in public performances. This course may be taken four times for credit.

TA 454 Race & Ethnicity in Performance I 3 Units

Prerequisite: None
General Education: AA/AS Area I; AA/AS Area VI; CSU Area C1
Course Transferable to UC/CSU
Hours: 36 hours LEC; 36 hours LAB
This course investigates performance literature and traditions of the Americas, particularly of the United States. Students will research, study, rehearse, and perform the work of playwrights, poets, and solo performance artists and learn how these writers create identities for themselves and their audiences. The course will focus on the cultures of Asian/Pacific Americans, Black/African Americans, Chicano/Latino/Hispanic Americans, Native Americans, and recent immigrant groups, as expressed in traditional and contemporary performance. Students will also write and develop original work, as well as participate in public performances. Specific readings and topics may adapt to the interests and needs of the current semester.

TA 455 Race & Ethnicity in Performance II 3 Units

Prerequisite: None
General Education: AA/AS Area I; AA/AS Area VI
Course Transferable to UC/CSU
Hours: 36 hours LEC; 36 hours LAB
This course investigates the use of theatre, performance, and related disciplines for the purposes of pursuing educational equity, community development, and/or social action. The course will focus on local communities of Asian/Pacific Americans, Black/African Americans, Chicano/Latino/Hispanic Americans, Native Americans, and/or recent immigrant groups, their cross-cultural relationships, and their artistic movements in late 20th/early 21st century performance. Under the direction of the instructor, students will identify a contemporary campus or community issue, collaborate on the development of an original, community-based theatre event, and participate in public performances. Specific readings and topics will adapt to the events and students current to the semester.

TA 461 Rehearsal and Performance - .5-3 Units Drama

Prerequisite: None
Enrollment Limitation: Audition.
Course Transferable to UC/CSU
Hours: 162 hours LAB
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 a maximum of 12 units.

TA 462 Rehearsal and Performance - .5-3 Units Comedy

Prerequisite: None
Enrollment Limitation: Audition.
Course Transferable to UC/CSU
Hours: 162 hours LAB
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 a maximum of 12 units.

TA 463 Rehearsal and Performance - .5-3 Units Classical

Prerequisite: None
Enrollment Limitation: Audition.
Course Transferable to UC/CSU
Hours: 162 hours LAB
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 a maximum of 12 units.

TA 464 Rehearsal and Performance - .5-3 Units Children's Show

Prerequisite: None
Enrollment Limitation: Audition.
Course Transferable to CSU
Hours: 162 hours LAB
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 a maximum of 12 units.

TA 465 Rehearsal and Performance - .5-3 Units Musical

Prerequisite: None
Enrollment Limitation: Audition.
Course Transferable to UC/CSU
Hours: 162 hours LAB
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 a maximum of 12 units.

TA 466 Rehearsal and Performance - Musical Ensemble .5-3 Units

Same As: MUP 370
Prerequisite: None
Enrollment Limitation: Students are selected through auditions as singers and instrumentalists.
Course Transferable to UC/CSU
Hours: 162 hours LAB
This course is open to students performing in theatrical musical productions. It provides a workshop training experience in the preparation and performance of musical literature. Students are selected through audition as singers and instrumentalists. The course requires 27 hours of laboratory for each half-unit of credit. This course is cross-listed with MUP 370. This course may be taken four times for a maximum of 12 units. Units may be earned from both MUP 370 and TA 466 for a maximum of 12 units.

TA 477 Fundamentals of Repertory Production 1-3 Units

Prerequisite: None
Enrollment Limitation: Audition.
Course Transferable to UC/CSU
Hours: 18 hours LEC; 108 hours LAB
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 taken four times for a maximum of 12 units. Students may opt for a one-unit workshop, which will survey the production process.

TA 494 Topics in Theatre Arts .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 54 hours LEC; 162 hours LAB
This course is designed to give students an opportunity to study topics in theatre which are not included in current course offerings. This course may be taken four times for credit for a maximum of 16 units.

TA 495 Independent Studies in Theatre Arts 1-3 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 36 hours LEC
This course involves an individual student or small groups of students in study, research, or activities beyond the scope of regularly offered courses, pursuant to an agreement among college, faculty members, and students. Independent Studies in Theatre Arts offers students a chance to do research and/or experimentation that is more typical of advanced studies in Theatre Arts.

TA 498 Work Experience in Theatre Arts 1-4 Units

Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
This course provides a supervised work experience in a professional theatre setting. Students may be assigned to work the box office, wardrobe, scenery construction, properties, lighting and sound, stage management, costuming, makeup, design, or acting. This course may be taken four times for a maximum of 16 units.

TA 499 Experimental Offering in Theatre Arts .5-4 Units

Prerequisite: None
Course Transferable to UC/CSU
Hours: 48 hours LEC; 72 hours LAB
This course will be an experimental offering on topics not yet covered by current Theatre Arts courses or an offering that addresses topics as they arise, such as those which relate to new styles of theatre or current topics. Courses will be structured around either a specific style (such as “dance theatre” or “multi-media theatre”) or a current topic (such as “environmental theatre” or “political theatre”).

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 after transfer)*

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 16 units, with no duplication of topics. Refer to the Schedule of Classes for more specific offerings.

ADMJ 494
AERO 494
ANTH 494
ART 494*
ARTH 494
ASTR 494*
BIOL 494*
BUS 294
CHEM 494
COMM 494*
COSM 294
ECE 294
ET 494
ENGR 494*
EDT 494
ENGLT 494
FCS 294
FITNS 494
FLTEC 294
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.

Women's Studies
Associate in Arts Degree

Required Program	**Units**
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.*

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.

Transfer 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.

Work Experience WEXP
Cooperative Work Experience Education and Internship Program

Division of Counseling and Student Success

Delecia Nunnally-Robertson, 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 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

Journalism - JOUR 498

Library and Information Technology - LIBT 498

Music, Specializations in Music - MUSM 498

Photography - PHOTO 498

Surveying - SURVY 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
Railroad Operations - RAILR 297
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

Prerequisite: None
General Education: AA/AS Area III(b)
Enrollment Limitation: 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.
Hours: 18 hours LEC; 225 hours LAB
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping a volunteer position or a job. Course content will include understanding the application of education to the workforce; the responsibilities of a volunteer position or a job; 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 workplace or the volunteer site; and developing workplace (soft) skills relevant to the 21st century workplace. 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; and 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 two times when there is new or expanded learning on the job for up to 6 units. In addition the student and the Work Experience instructor may tailor the course to meet the student's specific professional needs by identifying 1-4 workshops, trainings, or conferences that the student may attend as part of the curriculum of the Work Experience 198 class. Only one Work Experience course may be taken per semester.

WEXP 298 Work Experience in (Subject) 1-4 Units

Prerequisite: None
General Education: AA/AS Area III(b)
Enrollment Limitation: 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.
Hours: 18 hours LEC; 300 hours LAB
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) or a job; 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 workplace or internship site; and developing workplace (soft) skills relevant to the 21st century workplace. 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. In addition, the student and the Work Experience instructor may tailor the course to meet the student's specific professional needs by identifying 1-4 workshops, trainings, or conferences that the student may attend as part of the curriculum of the Work Experience 298 class. Only one Work Experience course may be taken per semester.

WEXP 498 Work Experience in (Subject) 1-4 Units

Prerequisite: None
General Education: AA/AS Area III(b)
Enrollment Limitation: 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.
Course Transferable to CSU
Hours: 18 hours LEC; 300 hours LAB
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) or a job; 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 workplace or internship site; and developing workplace (soft) skills relevant to the 21st century workplace. 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. In addition, the student and the Work Experience instructor may tailor the course to meet the student's specific professional needs by identifying 1-4 workshops, trainings, or conferences that the student may attend as part of the curriculum of the Work Experience 498 class. Only one Work Experience course may be taken per semester.

Sacramento City College

Classified Staff

Adams, Steven
Custodial Services

Adan, Alexander D.
Learning Resources Division

Aguirre-Barr, Silvia
Humanities and Fine Arts

Alexander, Almorris A.
Custodial Services

Anderson, Michelle
Physical Education Division

Anderson, Tanya
Matriculation & Student Development

Arashiro, Nancy
EOPS

Bailey, Scott
Humanities and Fine Arts

Balog, Stephen A.
Business Division

Beale, Barbara
Science and Allied Health

Bickley, Robert N.
Learning Resources Division

Biddle, Marlene
Administrative Services

Briggs, Melissa
Learning Resource Center

Brown, Alfred
Police Officer

Bruce, Loretta M.
Child Development Center

Brushchenko, Aleksandr
Custodial Services

Burney-Aldrich, Gail
Student Services

Byers, Vicki K.
Operations

Carroll, Andrea C.
Operations

Caruso, Eugene
Custodial Services

Castelle, Michael A.
Custodial Services

Casterline, Karen L.
Physical Education Division

Casterline-Burrow, Linda
Custodial Services

Catania, Anthony
College Store

Chavez, Jr., Augustine
Information Technology

Chekmarev, Vladimir
Custodial Services

Chekmareva, Anna
Learning Resource Center

Chestnut, Ramona L.
Child Development Center

Chewning, Karen D.
Operations

Childress, Creed T.
Advanced Technology Division

Ching, Timothy F.
Learning Resources Division

Chu, Madeline
Business Office

Ciddio, Josephine
Custodial Services

Clinger, Richard W.
Humanities & Fine Arts Division

Cobian, Ramona V.
CalWorks

Cohen, Robert B.
Information Technology

Coles, Linda G.
Business Office

Collins, Susan R.
Learning Resources Division

Conroy, Alex
Police Dispatcher

Cook, Ann
Language and Literature Division

Cook, Samuel W.
Information Technology

Cortijo, Kimberly
Financial Aid

Cotton, Vincent
Custodial Services

Cousin, Patricia S.
Counseling Services

Cox, Valerie
Police Supervisor

Crankfield, Jr., Varnell
Science and Allied Health Division

Crawford, Julie A.
Child Development Center

Cross, Dolores
Learning Resources Division

Kudin, Joan
EOP&S

Cull, Jay L.
Planning/Research

Dalske, Aurora
DSP&S

Daly, Catherine
Learning Resource Center

Damiani, Kathleen
Child Development Center

Danenberg, Anne
Planning/Research

DeCamp, Bruce
Information Technology

DeCamp, Christine
Instructional Services

Delira, Karen M.
Counseling Services

DeNigris, Robert C.
Duplicating Services

Dezsi, Rebecca
Admissions & Records

Divanyan, Andranik
Information Technology

Dolan, Mary T.
Instructional Services

Dorn, Kathleen A.
EOP&S

Downes, Myrletta A.
Enrollment and Student Services

Drake, Cathy L.
Duplicating Services

Drennan, Lauri
Learning Resource Center

Driver, Richard A.
Davis Outreach Center

Duong, Phuong
City Cafe

Duques, Melba L.
Financial Aid Office

Epling, David
City Cafe

Escobar, Yolanda J.
Learning Resources Division

Fassett, Rosemary L.
Planning/Research

Ferrell, Heidi
Instructional Services

Florez, Robert D.
Custodial Services

Fong, Brandon
Matriculation & Student Development

Fong, Miriam F.
Humanities & Fine Arts Division

Foster, Cassaundra
DSPS-Disability Resource Center

Franco, Dora
City Cafe

Fredricks, Donald W.
Custodial Services

Gage, Charlene
Learning Resources Division

Galloway, Gloria
Science & Allied Health Division

Galloway, Kimberly
Behavorial and Social Science Division

Gano, Dana
Business Office

Garcia, Coral D.
Business Office

Garcia, Diego
Operations

Garcia, Lisa
Child Development Center

Garza, Delissa G.
EOP&S

Geary, Parrish
Student Services

George, Margaret A.
Learning Resources Division

Gill, Marina
DSP&S

Gitonga, Michelle
Mathematics, Statistics, & Engineering Division

Glenn, Ryan
Matriculation/Student Development

Goff, Kimberly M.
Admissions & Records

Goff, Martha E.
Science and Allied Health Division

Goldberg, Sherri B.
Matriculation & Student Development (Assessment)

Griffin, Jennifer L.
Humanities & Fine Arts Division

Hale, Gary C.
Custodial Services

Hamilton, Amanda
Public Information Officer

Hamilton, Terri A.
Science and Allied Health Division

Hanamoto, Claire M.
Science and Allied Health Division

Hans, Janice
Language & Literature

Harper, Yoshiko
Child Development Center

Hart, Nannette
Mathematics, Statistics & Engineering

Harvey, Michael D.
Receiving

Heidt, Jr., Robert F.
Business Office

Heisleman, Robert B.
Matriculation & Student Development

Hibbard, Linda J.
Counseling Services (DSPS/LD)

Hickey, Vivian
Financial Aid

Hill, James
Learning Resource Center

Hirkala, Carmen
Science and Allied Health Division

Hodge, Tracey
Counseling Services

Houston, Lyle P.
Custodial Services

Humphries, Charlotte
Admissions & Records

Hunter, Leland
West Sacramento Center

Irwin, Kelly R.
Information Technology

Iwamasa, Debra K.
Financial Aid

Jackson, David
Physical Education Division

Jakab, Alena
Custodial Services

James, John
Advanced Technology

Jean-Gilles, Reginald
Counseling Services

James, Marcia L.
College and Community Relations

Jimenez, Mayra J.
Counseling Services/Intl Students

Johnson, Andrellia L.
Child Development Center

Johnson, Donna B.
Counseling Services

Johnson, Elizabeth
Information Technology

Jones, Jr., Roosevelt
Advanced Technology Division

Jordan, Robert H.
Information Technology

Juge, Jr., Joseph R.
Custodial Services

Kelkar, Poonam
Counseling Services

Kelly, Robert D.
Information Technology

Kenny, Charles L.
College Store

Kinoshita, Naomi
Learning Resource Division

Kivlin, Holly E.
Admissions & Records

Knowles, Deborah
Counseling Services

Kokhanyuk, Yekaterina
Financial Aid Office

Kozikowska, Barbara L.
Child Development Center

Kozikowski, Jacek I.
Davis Center

Kwong, Daniel
Information Technology

Lagat, Charito
Financial Aid

Lake, Janet E.
Downtown Center

Lampano, Jinky-Jay
Police Officer

Ledet, Shawn
Learning Resources Division

Lee, April
Police Dispatcher

Lee, Jennifer
Business Division

Levy, Blanche R.
Admissions & Records

Lodzhanskiy, Natalya
West Sacramento Center

Loeza, Regina
Science & Allied Health

Lopez, Peggi A.
Business Office

Lor, Ge Vang
Financial Aid Office

Lor, Pammy
Financial Aid Office

Loree, Timothy
Advanced Technology

Lukenbill, Karen L.
Admissions & Records

Lund, Mary
Physical Education

Lusk, Kellie
City Café

Machado, Laura F.
Administrative Services

Maghanoy, Jr., Restituto M.
Duplicating

Marchand, Whitney
Police Dispatcher

Marsant, Irina
Matriculation & Student Development (Assessment)

Martin, David H.
Learning Resources Division

Martinez, Amy
Custodial Services

Martinez. Ruben
Science and Allied Health

McEnerney, Claudia
Learning Resources Division

McHatton, Ann
College & Community Relations

McKay, Tamara A.
Admissions & Records

McLaughlin-Jordan, Margaret J.
Physical Education Division

McManus, Rhonda A.
Counseling Services

Melkonyan, Gegham
Mathematics/Statistics and Engineering

Melo, Louisa
Operations

Meltzer, Arlene
Child Development Center

Mendoza-Marin, Margarita
Behavioral & Social Science Division

Michael, Kristie
Language and Literature

Miguel, Lee
Matriculation & Student Development

Miller, Judy
City Café

Mishra, Ashmeeta
West Sacramento Center

Mitchell, Joanie
Information Technology

Mixon, Loren
Police Officer

Molina, Mercy
City Café

Moore, Carol E.
EOP&S

Moore, Valerie
Counseling Services

Moreno, Carla A.
Child Development Center

Morrison, Pamela
President's Office

Murillo, Catherine
Learning Resource Center

Nakano, Quinn
Reprographics

Newman, Toni
Matriculation & Student Development

Nguyen, Ha Thi Tinh
Learning Resources Division

Nguyen, William Son
Business Division

Nixon, Debra A.
Learning Resources Division

Ochoa, Ruth M.
Language and Literature Division

Oldham, Robert
Science & Allied Health Division

Olender, Nanci L.
Learning Resources Division

Osorio, Eduardo C.
Admissions & Records

Osterholt, Stephen
Business Division

Outlaw, Harry E.
Custodial Services

Pair, Gerald W.
Custodial Services

Papke, Larry
Advanced Technology Division

Perez, Cristina
College Store

Perry, Marilyn Keefe
Instructional Services

Pham, Ly
Custodial Services

Phillips, Catherine
EOP&S

Poncini, Carol A.
Financial Aid Office

Poteet, Rhonda A.
College Store

Proshak, Dimitry
Financial Aid/Admissions & Records

Pulskamp, Cailin
Child Development Center

Quesada, Charlie P.
Admissions & Records

Radcliff, Toni L.
Custodial Services

Ramirez, Yolanda
Counseling Services

Raught, David J.
College Store

Rendon, Elva
Instructional Services

Reyes, Laura
Admissions & Records

Roberts, Lisa
Mathematics, Statistics & Engineering

Robertson, Maurice C.
Custodial Services

Robertson, Velisa
CalWORKs

Rose, Rosa
Matriculation & Student Development

Ruchko, Tatyana
Financial Aid

Rud, Yelena
Financial Aid

Ruiz, Alicia
Counseling Services

Ruiz, Maria
Counseling Services

Ruiz, Ruben I.
Financial Aid

Rutherford, Rachel
Counseling Services

Ryan, Judith
Reprographics

Sagaydak, Elena
College Store

Sakaishi, Mitchell
Learning Resource Center

Sanders, Juanita E.
Counseling Services (DRC)

Scarborough, Coby M.
Child Development Center

Sekikawa, Allison S.
Graphic Impressions

Shoffner, David A.
Custodial Services

Sieler, Gary W.
Custodial Services

Silva, Donald T.
Information Technology

Sivell, Nicole C.
Humanities & Fine Arts Division

Smedley, LaShauna
Learning Resource Division

Smith, Indya
Child Development Center

Smith, Melody J.
Custodial Services

Smith, Shakeya
Business Office

Smithson, Pamela K.
Custodial Services

Solorio, Jeanette R.
Financial Aid Office

Souza, Monica M.
Matriculation & Student Development (CAC)

Stagner, Elaine R.
Counseling Services

Stanton, Patricia P.
Counseling Services

Sterken, Dale D.
Language & Literature

Stofle, Corine
Public Information Office

Takeda, Andrea
Graphic Impressions

Taylor, Elisher
Workability III

Taylor, Kathleen M.
Instructional Services

Teh, Peng (Hendrick) A.
Information Technology

Terry, Sharon D.
Staff Resource Center/Information Technology

Thao, Cha P.
Information Technology

Tien, Le N.
Science and Allied Health

Tracy, Heather
Behavioral & Social Science/P.E., Health, Athletics

Tran, Danh
Custodial Services

Tran, Minh
CalWORKs

Tran, Ngoc-Hau (Sharlene)
Matriculation & Student Development (Assessment)

Turner, Reginald
Custodial Services

Turnquist, Samantha
Matriculation & Student Development (DSPD/LD)

Tutunik, Valeriy
Learning Resources Division

Umphred, Kandy D.
Admissions and Records

Valverde, Tracey A.
Learning Resources Division

Vaughn, Starlette
Language & Literature Division

Velez, Hannia
Instructional Services

VeVea, Rosemary L.
Admissions & Records

Vidal, Laura
Davis Outreach Center

Vincent, Anthony
Custodial Services

Viracola, Marcia J.
Child Development Center

Virdure, Amy
Operations

Watson, Marlene R.
College Store

Weller, Diane Y.
College Store

White, Douglas
Custodial Services

Whittington, David J.
Physical Education Division

Wilkins, Regina
Student Services

Williams, James
Custodial Services

Wolf, Gary L.
Custodial Services

Wong, Anne
Advanced Technology

Wong, Laura E.
Admissions and Records

Wong, Laura S.
Admissions and Records

Wright, Sarah
Business Division

Xiong, Pinky
Graphic Impressions

Yagen, Paul
Police Officer

Yakubovskaya, Zhanna
Financial Aid

Yamamoto, Valerie
Science & Allied Health

Yee, Domina M.
Business Division

Zafires-Bain, Rebecca
College and Community Relations

Zakaryan, Ruzanna
Admissions and Records

Zavala, Manual M.
Custodial Services

Faculty
Alphabetical Listing

Ackerman, Alexis L. (2005)
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

Alviar-Agnew Marisa (2007)
Chemistry
B.S., University of Philippines
M.S., Ph.D., University of California, Davis

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

Arya, Palwasha (2008)
Biology
B.A., California State University, Hayward
M.S., California State University, Sacramento

Austin, Grace W. (2008)
Psychology
B.A., Western Connecticut State University
M.A., Marist College

Avendano, Marisa (2005)
Physical Education
B.S., B.A., 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

Balakin, Andrey G. (2008)
Chemistry
M.S., Ph.D., Moscow State 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

Beckhorn, Nisha B. (2006)
DSPS Counselor
B.S., University of California, Davis
M.S., California State University, Sacramento

Bedford, Brian A. (2008)
Business
B.A., UC Berkeley
M.A., University of Phoenix
J.D., Lincoln Law School

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, Student Leadership & Development
B.A., University of California, San Diego
M.Ed., Oregon State University
Phi Theta Kappa Leadership Development Studies Certification

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

Boguski, Mark (2007)
Ceramics
B.A., Pitzer College
M.F.A., Alfred University

Bomberry, Deskaheh D. (2007)
Physical Education/Assistant Baseball Coach
B.S., Sonoma State University
M.S., Eastern Kentucky University

Bonawitz, Marcia C. (2000)
Cosmetology
A.A., A.S., Sacramento City College
B.S., Southern Illinois University

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

Bryant, Ritchie R. (2008)
Sign Language
B.A., Gallaudet University
M.S., Mc Daniel College

Bui, Dinh (2007)
Counselor
B.A., M.S., 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

Burrell, Karen I. (2008)
Reading
B.S., Michigan State University
M.Ed., Texas State University, San Marcos
J.D., Michigan State University

Button, Donald (2006)
Graphic Communication
Certificate of Achievement, Collins Graphic Design School, Tempe

Campbell, Mitchell L. (2007)
Dean, Physical Education, Health and Athletics
B.S., University of California, Davis
M.A., Humboldt State University

Cappelletti, Thomas (2008)
Graphic Communication
Certificate, Fashion Institute of Design and Manufacturing, San Francisco
Certificate, Digital Illustration and Image Editing, Sacramento City College
B.A., University of California, Los Angeles

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

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

Castaneda, Denise (2007)
Reading
B.A., University of California, Davis
M.A., California State University, Sacramento

Cavanaugh, Judith M. (1974)
Vocational Nursing
B.S., College of St. Catherine
M.A., California State University, Sacramento

Cerri, Dominic A. (2006)
History
B.A., M.A., California State University, Sacramento
Ph.D, University of Wisconsin, Wisconsin

Cervin, Richard S. (2001)
English As A Second Language
B.A., California State University, Fullerton
A.M., Ph.D., University of Illinois
TESOL Certificate

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
Ph.D., Capella 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

Chevraux-FitzHugh, Adrian (2008)
Sociology
B.A., M.A., Humboldt State University

Christian, Jeffrey J. (2007)
College Nurse
School Nurse Credential, California State University, Sacramento
B.S.N., University of San Francisco

Chubbic, Dena (2007)
Chemistry
B.S., Azusa Pacific University
M.S., University of California, Los Angeles

Church, Kim (2006)
Communication
B.A., California State University, Sacramento
M.A., San Diego State University, San Diego
Ph.D., University of South Florida

Cirrone, Steve (2006)
English
B.A., State University NY Binghamton
M.A., Ph.D., Claremont Graduate University

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)
Academic Directory/Nursing Program
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

Cornelius, Victoria L. (2002)
Counselor (Athletics)
A.A., Fullerton Community College
B.A., University of California, Riverside
M.S., California State University, Sacramento

Copely, Douglas M. (1999)
Physics
A.B., Occidental College
M.S., Ph.D., University of Colorado

Coppola, Jessica D. (2005)
Nutrition
A.S., Santa Rosa Junior College
B.S., University of California, Davis
Ph.D., University of California, Davis

Crandley, Patrick A. (2008)
Graphic Design
B.A., California State University, Sacramento

Culmo, Shannon R. (2007)
Counselor
B.S., Texas A & M University
M.S., California State University, Sacramento

Cypret, Phillip B. (1984)
Aeronautics
A.A., Sacramento City College
B.S., Southern Illinois University
M.S., National University

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

deGennaro, Paul (2007)
Biology
B.S., California State University, Chico
M.S., California State University, Hayward

Dawkins, Fred A. (2008)
Business
A.A., B.A.; California State University, Sacramento
I.D., Harvard University, Cambridge

Deglow, Annette (1964)
Mathematics
B.S., University of Oregon
M.S., University of Arizona
M.L.S., 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.S.C.S., B.S.E.E., M.E., M.E.A., University of Utah, Salt Lake City
Certified Data Processor

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

Emmerling, Heidi L. (2007)
Dental Hygiene
A.S., Sacramento City College
B.S., University of St. Francis
M.A., Ph.D., University of Nevada Reno

Erlich, Richard J. (2001)
Counselor
B.A., Butler University
M.Ed., Teacher College Columbia University
Certified Rehabilitation Counselor

Estabrook, Paul (2007)
Photography
A.A., Sacramento City College

Fabian, Mitra (2006)
Art
B.A., Kenyon College, Gambier
M.F.A., California State University, Northridge

Fabionar, David E. O. (2002)
Communication
B.S., M.A., California State University, Sacramento

Fasman, Lyudmilla (2005)
Mathematics
ABD, Washington State University
M.A., B.S., San Francisco State University

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

Fites, Catherine (2008)
Dean, Enrollment and Student Services
B.A., University of California, Davis
M.A., California State University, Sacramento

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

Fonda, Gioia (2008)
Art Paint/Draw
B.A., California College of Arts
M.A., School of Visual Arts, New York

Fong, Susan H. (1989)
Counselor (International Students)
A.A., Sacramento City College
B.A., San Francisco State University
M.S., National University

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

Freas, Adam (2008)
Counselor, EOPS
B.A., M.S., California State University, Sacramento

Fujikawa, Lynn W. (2009)
Nursing
A.D.N., Sierra College
B.S., University of Southern California
M.S.P., California State University, Hayward
M.S.N., California State University, Sacramento

Gallup, Ernest E. (2004)
Motorcycle/Aeronautics
A.S., Sacramento City College

Gambrell, Deborah M. (2008)
Counselor, General
A.A., Allan Hancock College
M.A., B.A., California Polytechnic State University, San Luis Obispo

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

Giovannetti, Lynne R. (2008)
Fashion
A.S., A.A., College of Marin
B.A., San Francisco State University

Gomez, Wendy (2008)
Nurse
B.A., M.S., California State University, Sacramento

Gonzalez, Mauricio (2005)
Counselor
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

Greene, Thomas (2007)
Associate Vice President, Enrollment and Student Services
B.S., Northern Illinois University
M.S. Ed., Northern Illinois University
Ph.D., University of Texas at Austin

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

Hadsell, Jory (2006)
Distance Education Coordinator
A.A., Sierra College
B.B.A., Jones International University
M.P.A., National University, La Jolla

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

Harvey, Jonathan (2006)
Counselor
B.S., Northwestern University
M.A., John F. Kennedy University

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

Hoerl, Ada B. (2007)
Occupational Therapy Assistant
A.S., Sacramento City College
B.S., Rochester Institute of Technology

Hogarty, Patrick J. (2000)
Computer Information Science/Business
B.S., California State University, Sacramento

Holland, Gina (2006)
Biology
B.A., San Diego State University
M.A., Ph.D., University of California, Santa Cruz

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. (2006)
Chemistry
B.S., Marymount College, Kansas
M.A., 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

Jackson, Brenda L. (2008)
Nursing
A.D.N., Denver Community College
B.S.N., Metropolitan State College
M.S.N., University of Phoenix

Jackson, Sally-Anne (2008)
English
A.A., Central Piedmont Community College, Charlotte
B.A., M.A., California State University, San Bernardino
Ph.D., University of California, Riverside

James, Stephen C. (2001)
Biology
A.A., Glendale Community College
B.A., University of California, Santa Barbara
M.S., California State University, Sacramento

Janssen, Kristine (2000)
Counselor
A.A., Yuba Community College
B.A., California State University, Sacramento
M.A., University of San Francisco

Jeffery, Kathryn E. (2008)
President
B.M.E., Oklahoma State University, Music (Piano/Voice)
M.S., Oklahoma State University, Behavioral Studies in Education (Counseling)
Ph.D., University of Texas at Austin, Education Administration (CCLP)

Jensen, Andre M. (2009)
Philosophy
A.A., Modesto Junior College
B.A., California State University, Stanislaus
M.A., University of California, Davis

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

Karlsen, Jeffrey (2008)
Public Librarian
B.A., M.A., University of California, Berkeley
M.L.I.S., San Jose State 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

Kirkpatrick, Nadine (2009)
Nutrition
B.S., Ph.D., University of California, Davis

Kjos, Troy (2006)
Biology
B.S., University of California Berkeley, Berkeley
M.D., UCLA School of Medicine, Los Angeles

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

Lambert, Angelena (2007)
Mathematics
B.A., M.A., California State University, Sacramento

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)
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

Lorenz, Norman (2008)
Early Childhood Education
Certificate, Montessori Teachers College, Sacramento
Certificate, Montessori Teachers, San Diego
B.A., M.A., California State University, Sacramento

Lucas, Andrea K. (2008)
Spanish
B.A., Universidad de Concepcion, Chile
M.A., California State University, Sacramento

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

Maglione, Robert A. (2001)
Physical Education
B.A., California State University, Chico
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

Maloney, Lori A. (1988)
Mathematics
A.A., Santa Rosa Junior College
B.A., San Francisco State University
M.A., University of California, Davis

Manriquez, Paul (2006)
Mathematics
B.S., California State University, Los Angeles
M.S., University of California, Riverside

Manuel, Mara L. (2007)
Nursing
B.S.N., California State University, Sacramento

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

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, Liam 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

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, Nicholas (2007)
Sociology
B.A., Pacific University, Forest Grove
M.A., University of California, Davis

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

Muther, Shantra H.
English as a Second Language
B.A., University of California, Davis
M.A., California State University, Sacramento

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

Nuss, Linda M. (2002)
Chemistry
B.S., M.S., University of California, Riverside
M.A., National University

Nuttall, Gabriella G. (2005)
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

Olivarez, Norma (2007)
Cosmetology
Certificate, Dermal Institute, Sacramento
Certificate, Paul Mitchell, Costa Mesa
B.A.S.MGT., University of Phoenix

Olsen, Nancy (2006)
Reading
B.A., California State University, Los Angeles
M.A., Ph.D., University of California, Davis
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)
Dean, Davis Center
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.A., California State University, Sacramento
M.S., University of Laverne

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

Petite, Lori M. (2008)
Communication
A.A., American River College
B.A., M.A, California State University, Sacramento

Phillips, Joseph H. (1988)
Mathematics
A.A., American River College
B.A., California State University, Chico
M.S., Iowa State University

Piedra, Erica A. (2007)
Spanish/French
B.A., California State University, Fresno (French/Spanish)
Ph.D., University of California, Davis (French)

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

Poe, Kathleen (2006)
Music
B.M., M.M., California State University, Sacramento

Poindexter, Michael (2006)
Vice President, Student Services
BA, Creighton University
M.Ed., University of Northern Iowa

Polagruto, John (2006)
Nutrition
B.S., M.S., University of Massachusetts, Amherst

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

Rangel, Makeba (2007)
Reading
B.S., California State University, Portland
M.A., University of California, Riverside
M.A., California State University, San Bernardino

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

Rios Kravitz, Rhonda A. (2007)
Dean, Learning Resources
B.A., California State University, Sacramento
M.S.L.S., Simmons College
D.P.A., University of Southern California

Roberts, Joshua (2006)
English
B.A., Credential
M.A., California State University, Sacramento

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

Rodriguez, Irma (2006)
EOP&S Coordinator
A.A., San Joaquin Delta
B.A., University of California, Davis
M.S.W., University of California, Berkeley

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

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

Ruedas, Sandra R. (2001)
EOP&S Counselor
A.A., Sacramento City College
B.A., M.S., California State University, Sacramento
Pupil Personnel Services Credential

Saap, Silvia J. (2008)
Nursing
A.D.N., Bronx Community College
T.C.V., California State University, Sacramento
B.A., Hunter College Bellevue

Sarte, Jaime M. (1999)
Biology
A.A., Ohlone College
B.A., University of California, Santa Cruz
M.A., San Jose State University

Schutte, Mathew L. (2008)
Mathematics
B.S., University of California, Berkeley
M.A.T., University of California, Davis

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

Shiflet, Kurt (2006)
Music
Music Perf., Guitar Inst. of Technology, Hollywood
B.M., M.A., California State University, Sacramento

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., Ph.D., University of California, Davis

Steever, Joseph (2007)
Mathematics
B.S., University of the Pacific
M.A., University of California, Berkeley

Steward, Mary M. (2001)
English
B.S., M.Ed., University of Missouri

Strella, Cheryl L. (2008)
Nursing
B.S.N., California State University

Strimling, Amy (2006)
Family Consumer Science/Early Childhood Education
A.A., American River College
B.A., M.A., California State University, Sacramento

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

Tambert, Roxanne R. (1997)
Cosmetology
A.A., Sacramento City College
B.A., Southern Illinois University

Tanghetti, Rosamaria (2008)
History
B.A., University of California, Los Angeles
M.A., Stanford University
Ph.D., University of California, Davis

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

Times, Kenneth J. (2008)
Counselor, EOPS
B.A., Howard University
M.S., California State University, Sacramento

Toupadakis, Barbara (2006)
English as a Second Language
B.S., University of Maine, Orono
M.A., University of Iowa
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
Ed.D., University of California, Davis

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

Trujillo, David (2008)
Administration of Justice
B.A., M.S., California State University, Sacramento

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
Ed.D., Argosy University

VanSickle, Debra L. (1990)
Mathematics
B.A., M.A.T., University of California, Davis

Villanueva, Maria C. (2007)
Counselor
B.A., California State University, Stanislaus
M.S., California State University, Sacramento

Vrechek, Jean A. (1985)
Mathematics
B.S., University of Illinois
M.A., San Jose State University

Waggoner, Camille (2008)
English
B.A., M.A., California State University, Sacramento

Wagner, Glennda G. (1999)
Associate Degree Nursing
B.S.N., Wichita State University
M.S., University of California, San Francisco

Walker, Dannie (2008)
Coach/Fitness
A.A., Hartnell Community College, Salinas
B.S., California State University, Sacramento
M.S., California University of Pennsylvania

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

Williams, Nichelle (2008)
Counseling
B.S., San Jose State University
M.S., California State University, Sacramento

Wilson, Emily J. (2005)
Art
B.F.A., Utah State University
M.F.A., University of Arizona

Woo, Jane (1991)
Counselor
B.S., California State University, Sacramento
M.A., National University, Sacramento

Woodmansee, Rick (2006)
Mathematics
B.S., University of California, Davis
M.S., Central Washington University, Ellensburg

Woolley, Nicole (1998)
Librarian
Certificate, Online Teaching, Cerro Coso College
B.A., California State University, Sacramento
M.L.I.S., Louisiana State University

Womack, Jesse F. (1999)
Philosophy
B.A., M.A., University of California, Davis
M.A., California State University, Sacramento

Wong, Peter W. (2008)
Cosmetology
A.S., Sacramento City College

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

Zeh, Jonathan (2006)
Mechanical-Electrical Technology
A.S., Sacramento City College

Zuercher, Connie A. (1989)
Physical Education
B.A., University of California, Davis

Sacramento City College

Faculty

Listing by Division

Division of Advanced Technology

Armstrong, Joseph
Arnold, Darlene
Bonawitz, Marcia
Button, Donald
Cappelletti, Thomas
Chevraux-FitzHugh, Adrian
Crandley, Patrick
Cypret, Phillip
Duvall, Melvin
Estabrook, Paul
Finley, Phillip
Fitzpatrick, Kenneth
Fleming, George
Gallup, Ernest E.
Handy, Mae Frances (Fran)
Johnson, Lawrence
Kalber, Thomas
Kumar, Shishir
Ng, Wang
Olivarez, Norma
Seddon, Christopher
Sodergren, Kit
Tambert, Roxanne
Waxman, Robyn
Wong, Peter
Zeh, Jonathan

Division of Behavioral and Social Science

Austin, Grace
Bahhur, Riad
Block, Angela
Bruce, Thomas
Cerri, Dominic
Coppola, Jessica
Davis, Craig
Doonan, William
Flaherty, Pamela
Foley, Jo-Ann
Frank, Paul
Garr, Nancy
Giovannetti, Lynn
Gould, Kelly L.
Graybill, Stuart
Gunderson, Lisa
Heningburg, Keith
Hilligoss, Tonya
Hunter, Michael
Keys, Alan
Kirkpatrick, Nadine
Lindell, Pamela
Lopez, Gloria
Lorenz, Norman
McKee, Georgeann
Patton, Sherri
Perry, Laurie
Piscopo, Holly
Pitman, Gayle
Polagruto, John
Regalado, Maria
Sjovold, Carl-Petter
Strimling, Amy
Tanghetti, Rosamaria
Takanikos, John
Tedla, Dagne
Thorpe, W. Steve
Tibbals, Kathleen
Tromborg, Chris
Trujillo, David
Whipple, Charles
Xiao, Alex H.

Division of Business

Anderson, Kevin
Bedford, Brian
Burbage, Gregory
Dawkins, Fred
Deus, Richard
Dixon, Michael
Douglass, Bruce
Feder, Sandra
Hogarty, Patrick
Ing, Celina
Pease, Dyan
Reynolds, Linda
Rishard, Truman
Rose, Gregory
Schaefer, David
Smedley, Lauri
Smith, Dennis
Stein, Shanna
Stroh, Linda
Taylor, Timothy
Wei, Timothy
Zannakis, Amanda

Division of Counseling and Student Success

Allred, Mary-Susan
Bacod, Maristella
Barfield, Annette
Beckhorn, Nisha B.
Belair, Diane M.
Bui, Dinh
Christian, Jeffrey J.
Cornelius, Victoria
Culmo, Shannon R.
Erlich, Richard
Fong, Susan
Freas, Adam
Gambrell, Deborah
Gomez, Wendy
Gonzalez, Mauricio
Hagerty, David
Harvey, Jonathan
Janssen, Kristine
Jovanovic, Angelia
LaChica, Juan
Muraki, Keith
Parker, Leslie
Rasul, David
Reese, Rick
Rodriguez, Irma
Ruedas, Sandra
Scott, Geraldine
Slobodnik, Wendy
Times, Kenneth
Tracy, Gwyneth
Villanueva, Maria C.
Williams, Nichelle
Woo, Jane
Yang, Richard

Division of Humanities and Fine Arts

Alforque, Angela-Dee
Altmann, John
Blanc, Miriam
Bogushi, Mark
Bryant, Ritchie
Carroll, Robert
Clark, Kevin
Church, Kim
Daubert, Christopher
Fabian, Mitra
Fabionar, David

Fonda, Gioia
Forrester, Elizabeth
Garcia, Mari Carmen
Gore, Robert
Hanson, Luther
Harris-Jenkinson, Patricia
Hawthorne, Julie
Irwin, Doreen
Jensen, Andre
Kidrick, Valerie
Knable, Robert
Lawson, Douglas
Masterson, Patricia
Piedra, Erica A.
Petite, Lori
Poe, Kathleen
Redmond, Patti
Severson, Michael
Shaskan, Isabel
Shiflet, Kurt
Weinsheink, Shawn E.
Wilson, Emily
Womack, Jesse
Zamora, Frank

Division of Language and Literature
Castaneda, Denise
Cervin, Richard
Chambers, Carole
Cirrone, Steve
Dana, Maureen
Doersch, Ann
Gary, Lara
Haag, Janis
Hanson, Jon
Heimer, Dianne
Ikegami, Robin
Jackson, Sally-Anne
Joy, Anna
Kawamura, Sandra
Keen, Judith
King, Adrienne
Knorr, Jeffrey
Larson, Marie
Lee, Jan
Lewis, Ann
Loomis, Debora
Miner, Thomas
Myers, Troy
Nuttall, Gabriella
Olsen, Nancy
Patton, Marcus
Prado, JoAnna
Rangel, Makeba
Roberts, Joshua
Romero, Danny
Selva, Marcia
Silcox, S. Travis
Spangler, Rachel
Steward, Mary
Thomas, D. Brett
Thomas-Val, Jacinth
Toupadakis, Barbara
Waggoner, Camille

Division of Learning Resources
Chen, Shu
Chenu-Campbell, Catherine
Gessford, Virginia
Green, Melissa
Hadsell, Jory
Karlsen, Jeffrey
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
Johnson, Mai-Gemu
Kloumova, Irina
Lambert, Angelena
Larson, Carillon
Maloney, Lori
Manriquez, Paul
Martinez, Jesus
Martensen, Carol
May, Alexander
May, Virginia
McDonald, Patrick
Medina, Renee
Mendez-Nunez, Luis
Phillips, Joseph
Rosenberger, Randy
Schutte, Mathew
Segal, Jonathan
Steever, Joseph
Styer, Daniel
Van Sickle, Debra
Vrechek, Jean
Walker, Norman
Wang, Hsiao
Webster, Mark K.
Woodmansee, Rick

Division of Physical Education, Health, & Athletics
Avendano, Marisa
Bauduin, Lisa
Blair, Deborah
Bomberry, Deskaheh D.
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
Walker, Dannie
Zuercher, Connie

Division of Science and Allied Health
Ackerman, Alexis
Allen, Kathleen
Alviar-Agnew Marisa
Bennett, Diane
Carberry-Goh, Karen
Carlson, Joanne
Carriere, Sue
Cavanaugh, Judith
Chan, Cheryl
Chape, Elizabeth
Chubbic, Dena
Cohen, Dale
Collins, James
Copely, Douglas
deGennaro, Paul
Emmerling, Heidi L.
Fujikawa, Lynn
Greenfield, Joan
Greenwell, Andrea
Harris, Patricia A.
Hoerl, Ada B.
Holt, Julie
Holland, Gina
Huang, Ling

Hussey, Susan
Iley II, William
Isbell, Maggie
Jackson, Brenda
James, Stephen
Johnson, Denise
Johnson, Judy
Kjos, Troy
Lo, Sandra
Lucien, Darreis
Manuel, Mara L.
McDaid, Liam
Meyer, Virginia
Miller, Nicholas
Miller, William
Minter, Carol
Naganuma, Kenneth
Newman, Forrest
Nuss, Linda
Richardson, Michael
Roffey, Robin
Roper, Susan
Sarte, Jaime
Serafini, Lisa
Sheppard, Laurie
Siu, Jennifer
Standley, Ellen
Stanton, Kathryn J.
Strella, Cheryl
Triphon, Joann
Wagner, Glennda
Warrell, Patricia
Wicks, Debra
Wyatt, David
Zenner, Bruce

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 operation 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, 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

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.

Crime Awareness and Campus Security Act

Safety and Security

Safety and security are given the highest priorities at Sacramento City College (SCC). Although the Los Rios Police Department (LRPD) has a major role in promoting a safe learning environment, safety and security is everyone's responsibility. SCC takes a proactive approach to safety that promotes awareness and prevention and students, staff, and faculty form a strong partnership to reduce the opportunity for criminal/anti-social activities.

The LRPD patrols the campus 24 hours a day, seven days a week. Los Rios police officers are P.O.S.T. certified and are sworn peace officers as defined by section 830.32 of the California Penal Code and under California Education Code 72330. Officers have the authority to make arrests for violations and the authority to conduct investigations. In addition, officers enforce traffic and parking regulations, detect and report safety/fire hazards, and promote crime prevention. All police officers are first aid and CPR certified.

Los Rios Police Department Contact Information

The Police Department Office hours are from 8:00AM- 5:00PM Monday-Friday, however, the campus is patrolled and the Police Communications Center is staffed 24 hours a day, seven days a week. To report a crime or request assistance, call (916) 558-2221 (or just 2221 if using a campus phone) and there are also numerous emergency phones located throughout the campus.

Services

Personal Safety Escorts. Officers or student patrols will provide safety escorts to any campus location upon request (i.e. from the main campus to a parking lot).

Emergency Automotive Assistance. While not mechanics, LRPD officers are equipped and trained to start cars with dead batteries or unlock non-electric car locks when keys have been left inside the automobile. Proper identification is required.

Crime Prevention. The key to crime prevention is awareness gained through education. The LRPD provides crime prevention training upon request. Some events such as Sexual Assault Awareness Workshops are conducted each semester.

Lost and Found is located at the Police Department. Items can be picked up/dropped of during business hours (Mon-Fri/8:00AM-5:00PM)

Emergency Telephones located throughout the campus are linked directly to the Police Communications Center. Use these phones to report crimes in progress, suspicious individuals or circumstances, or for any other serious or emergency situation.

Restraining Orders will be enforced by the Los Rios Police Department. A copy of the order must be on file. Contact the LRPD for specific information.

Parking information is available at the Police Department. Days and hours of permit enforcement are Monday through Thursday 7:00AM to 11:00PM, Friday, 7:00AM-5:00PM whenever classes are in session. Disabled parking, red and green zones, and overnight parking are enforced at all times.

Lock Removal (i.e. padlocks from lockers) can be requested by contacting the Police Communications Center. Proof of ownership/assignment and valid identification is required.

Campus Security Act of 1990

The Campus Security Act of 1990 (20 USC 1092 [Clery Act]) requires that all colleges and universities receiving Title IV student aid assistance prepare and distribute an annual report (Clery Report) which sets forth its policies on crime prevention issues and gives statistics on the number of specific crimes which occur on campus and other defined locations and the number of arrests on campus for liquor law and drug abuse violations, and weapons possession. In addition, the act requires colleges and universities to provide timely warnings to the campus community of certain crimes reported to law enforcement, which may represent a continued threat to other students and employees.

Annually, before October 1st, the Clery Report is published for public dissemination. This data is sent electronically to all students, staff, and faculty and is also available on the SCC Web site under the Los Rios Police Department (LRPD). In addition, selected information, as well as the specific link to the report (http://wserver.crc.losrios.edu/~police/Resources/annualcleryreport.pdf) is published in a variety of publications including the College Catalog and Schedule of Classes. Hard copies of the Clery Report can be obtained from the Los Rios Police Department located at the base of the parking structure (main entrance off of Sutterville Road).

Visitors to the College

Visitors are welcome to visit the campus at any time during business hours. Parking is available in all student lots. Restrictions are enforced Monday through Friday, and a valid permit must be displayed.

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.

Los Rios Police Department
Sacramento City College

Clery Act Requirement 2005-2007

	Total On-Campus			Non-Campus Buildings			Public Property*		
Offense Type	2005	2006	**2007**	2005	2006	**2007**	2005	2006	**2007**
Aggravated Assault	**2**	**3**	**2**	**0**	**0**	**0**	**3**	**1**	**1**
Arson	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**1**
Burglary	**23**	**9**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
Motor Vehicle Theft	**11**	**17**	**8**	**0**	**0**	**0**	**25**	**38**	**2**
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	**2**	**0**	**2**	**0**	**0**	**0**	**4**	**7**	**2**
Sex Offenses-Forcible	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**1**	**0**
Sex Offenses-Non-Forcible	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Liquor Law Violations (arrests):	**3**	**4**	**3**	**0**	**0**	**0**	**0**	**3**	**0**
Drug Abuse Violations (arrests):	**10**	**8**	**7**	**0**	**0**	**0**	**9**	**15**	**6**
Weapons Possession (arrests):	**0**	**3**	**3**	**0**	**0**	**0**	**4**	**1**	**0**
Hate Crimes (by Prejudice)									
(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**

On-Campus refers to crimes committed on the campus property, non-campus refers to crimes committed at all Outreach Centers and properties that are *leased* or *rented* by SCC for instructional purposes. Non-campus properties only include crimes that occurred in the specific areas and during the specific times used by SCC. It does not include public property. Public property refers to those areas immediately adjacent to and accessible from the College, including streets, sidewalks, parking facilities, parks, etc. It does not include private residences or businesses. Note: The statistics provided here may be subject to change pending further review. For the most accurate accounting, please refer to the LRPD Website.

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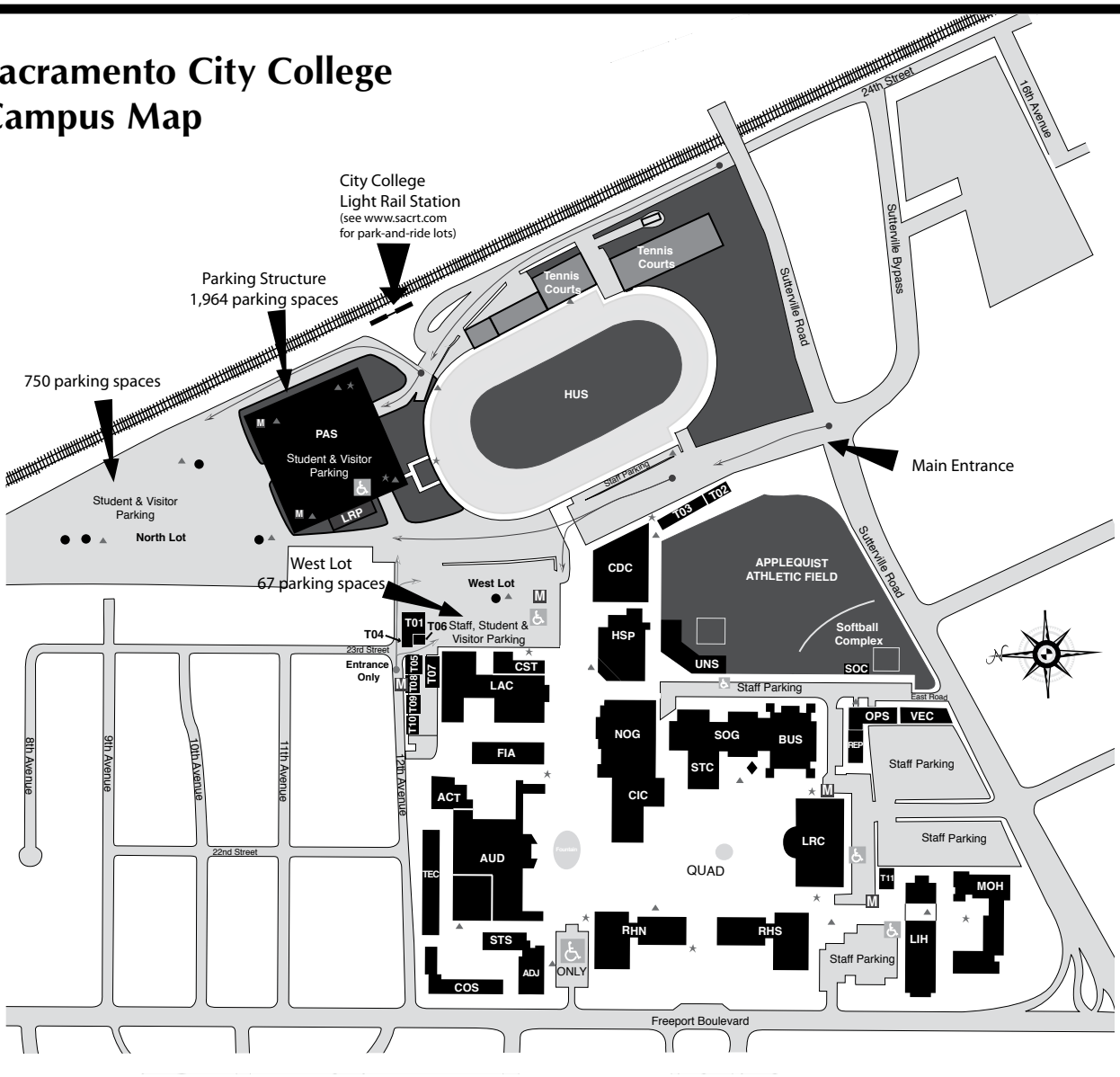
Sacramento City College Campus Map



AUD	Auditorium	**PAS**	Parking Structure	**T11**	Temporary 11
ACT	Art Court Theatre	**REP**	Reprographics	**UNS**	Union Stadium
ADJ	Administration of Justice	**RHN**	Rodda Hall - North	**VEC**	Vehicle Compound
BUS	Business	**RHS**	Rodda Hall - South	●	Parking Permit Machines
CIC	City Café	**SOC**	Softball Complex	♦	Bike Lockers
CDC	Child Development Center	**STC**	Student Center	★	Campus Directories
COS	Cosmetology	**SOG**	South Gymnasium	▲	Emergency Phones
CPE	Center for Physical Excellence	**STS**	Student Services	♿	Parking for Persons with Disabilities
CST	College Store	**TEC**	Technology	M	Motorcycle Parking
FIA	Fischbacher Arts Building	**T01**	Temporary 1	■	Tennis Courts
HSP	Hoos Swimming Pool	**T02**	Temporary 2	●→	Parking Lot Entrances
HUS	Hughes Stadium	**T03**	Temporary 3	●→	Parking Lot Entrance Only/No Exit
LIH	Lillard Hall	**T04**	Temporary 4		
LAC	Lusk Aeronautical Center	**T05**	Temporary 5		
LRC	Learning Resource Center	**T06**	Temporary 6		
LRP	Los Rios Police Department	**T07**	Temporary 7		
MOH	Mohr Hall	**T08**	Temporary 8		
NOG	North Gymnasium	**T09**	Temporary 9		
OPS	Operations	**T10**	Temporary 10		