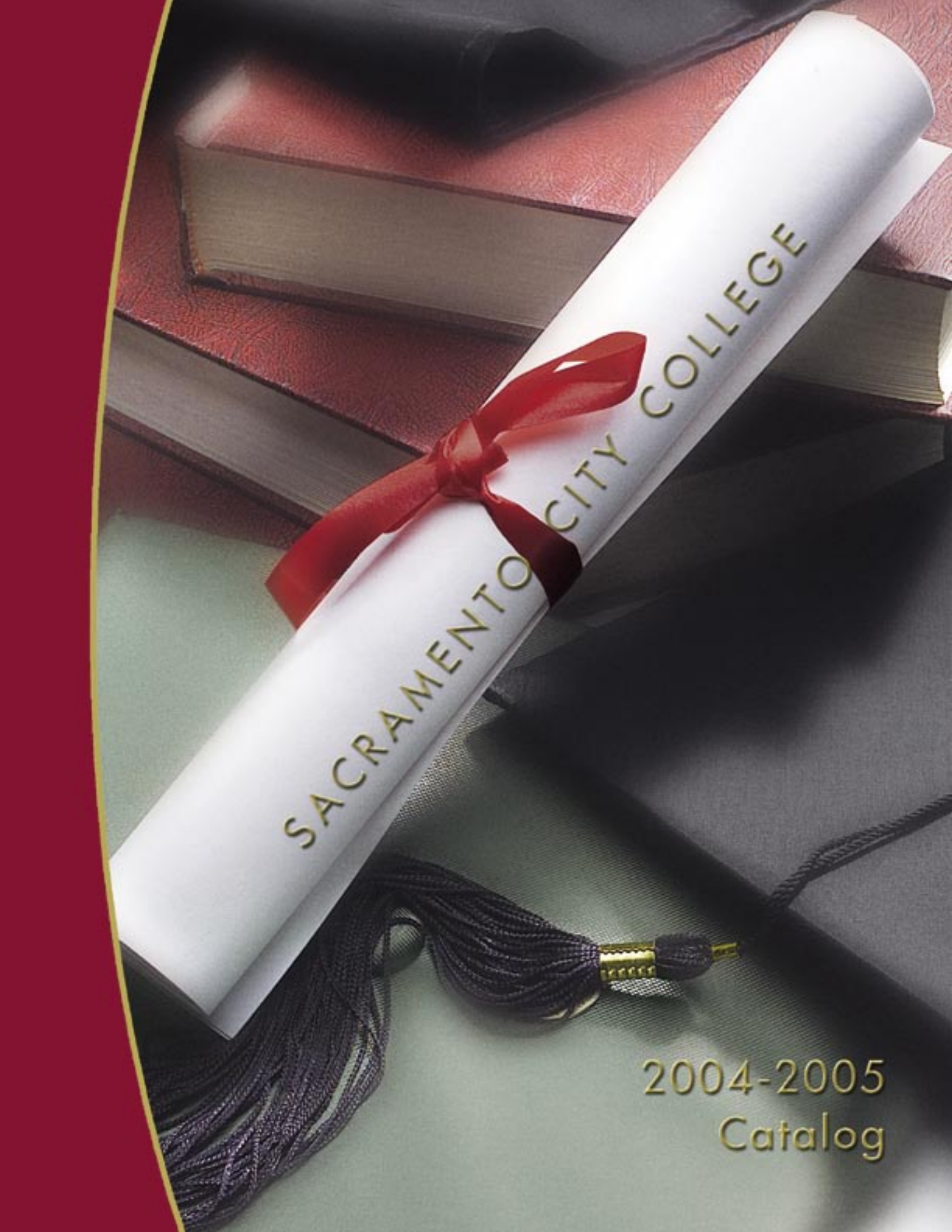


2004-2005 Catalog

Sacramento City College

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

Los Rios Community College District

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

Dr. Brice W. Harris, Chancellor

2004-2005 Board of Trustees

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

This catalog was printed in March, 2004, and does not reflect changes or new program approvals that may have occurred since that time. Check with Admissions, Counseling, or Instruction for the most current information. The publication is available in alternate formats (large print, Braille, MP3, or e-text). Please call 916-558-2087 (voice) or 916-558-2693 (TDD).

Table of Contents

Academic Calendar (Summer 2004, Fall 2004, Spring 2005) iv
Administration v
Organization of the Instructional Areas vi
President's Message 1
About the College 2
Non-Discrimination Policy 4
Faculty Code of Ethics, Statement of Professional Ethics 5
Classified Code of Ethics 6
Management Code of Ethics 6
Student Support Services 7
Financial Assistance 14
Student Leadership and Development 17
Admission 19
Academic Standards 26
Graduation Requirements 31
Requirements of Transfer Institutions 36
Intersegmental General Education
Transfer Curriculum (IGETC) 41
California Articulation Number System 44
Majors, Degrees, and Certificates 46
Programs of Study and Course Description (A-W) 50-371
Accounting 50
Administration of Justice 53
Advanced Transportation Technology 59
Aeronautics
Electric Vehicle Technology
Flight Technology
Railroad Operations
Recreational Vehicle Technology
Allied Health 71
Anthropology 73
Art 76
Astronomy 82
Biology 83
Business 88
Chemistry 103
Communication (Formerly Speech Communication) 107
Community Leadership Development 112
Community Studies (emphasis on Direct Services) 113
Communications Media 114
Computer Information Science 115
Cosmetology 138
Dental Assisting 142
Dental Hygiene 145
Early Childhood Education 149
Economics 159
Electronics Technology 161
Engineering 167
Engineering Design Technology 170
English 176
English as a Second Language 186
Ethnic Studies 194
Experimental Offering in/Independent Studies in/
Topics in 195
Family and Consumer Science 196
Fine Arts 205
Foreign Languages 206
Chinese, Cantonese/Mandarin
Farsi
French
German
Japanese
Russian
Spanish
Tagalog
Vietnamese
General Education, Transfer 213
General Studies, Non-Transfer 214
Geography 215
Geology 218
Gerontology 220
Graphic Communication 223
Health Education 230
History 232
Honors Program 237
Human Career Development 238
Human Services 241
Humanities 243
Industrial Technology 245
Instructional Assisting 246
International Studies 248
Journalism 249
Liberal Studies for Elementary Teachers 252
Liberal Studies 254
Library 255
Library and Information Technology 257
Mathematics 259
Mechanical-Electrical Technology 265
Metals Industry Technology 272
Motorcycle Maintenance 275
Music 278
Nursing, A.D.N. 290
Nursing, Vocational 295
Occupational Therapy Assistant 298
Philosophy 303
Photography 306
Physical Education/Athletics 311
Physical Therapist Assistant 327
Physics 331
Political Science 333
Pre-Professional Majors 335
Psychology 337
Recreation 345
Science 346
Sign Language Studies 347
Social Sciences 349
Sociology 351
Statistics 356
Student Government 357
Study Abroad Program 358
Technology 359
Theatre Arts 361
Women's Studies 367
Work Experience Education and Internship Program 368
Classified Staff 371
Faculty - Alphabetical Listing 375
Faculty - Listing by Instructional Area 384
Glossary of College Terms 387
Index 388

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
Dental Continuing Education . . . . . (916) 558-2443
Health Office . . . . . (916) 558-2367
Los Rios eServices . . . . . www.scc.losrios.edu
Police Services Office . . . . . (916) 558-2365
Telephone Enrollment System . . . . . (916) 286-4400
Or 1-800-700-4144
sccreg@scc.losrios.edu

Instructional Division Offices

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

Off-Campus Instructional Centers

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

Notice to Students

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

Special Acknowledgment to

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

Academic Calendar

Summer Session 2004

June 7	Instruction Begins, First Session
June 21	Instruction Begins, Six week/Second Session
July 2	End of Fourth Week/First Session
July 5	Holiday-Independence Day
July 6	Instruction Begins, Fourth week/Second Session
July 16	Final Exams and End of Six week/First Session
July 29	Final Exams and End of Four week/Second Session
July 29	Final Exams and End of Six week/Second Session
July 29	Final Exams and End of Eight week Session

Fall Semester 2004

August 16	Instruction Begins
September 6	Holiday - Labor Day
November 12	Holiday - Veteran's Day
November 20	Last day to drop full semester classes
November 25-28	Thanksgiving Recess
December 17	End of Semester
December 20-30	Winter Recess
January 3-12, 2005	Semester Break

Spring Semester 2005

January 17, 2005	Holiday - King's Birthday
January 18	Instruction Begins
February 18	Holiday - Lincoln's Birthday
February 21	Holiday - Washington's Birthday
March 21-27	Spring Recess
April 30	Last day to drop full semester classes
May 25	End of Semester/Commencement

*Please check the Schedule of Classes for more current information.

Administration

College President	Dr. Robert M. Harris
Vice Presidents	
Administration	Lloyd T. Rodgers
Instruction	Deborah J. Travis
Student Services	Dr. Patricia C. Hsieh
Administrators	
Administrative Services	Robert J. Martinelli
Admissions, Records, and Special Programs	Sam T. Sandusky
Advanced Technology	Joseph Armstrong, Interim
Behavioral and Social Sciences	Dr. Kari Forbes-Boyte
Business	Shirley Short
College and Community Relations	Mary Leland
College Store	John Working
Davis Center	John E. Ruden
Economic and Workforce Development	James L. Comins
Humanities and Fine Arts	Chris R. Iwata
Information Technology	Dr. Elaine Ader
Language and Literature	Julia Jolly
Learning Resources	Yvonne Maller, Interim
Mathematics/Statistics and Engineering	Ronald Hatton, Interim
Matriculation and Student Development	Myra K. Borg
General Education and Outreach Programs	David A. Blackwell, Interim
Physical Education, Health, and Athletics	Gary E. Torgeson
Planning, Research, and Institutional Effectiveness	Dr. Nelle Moffett
Science and Allied Health	Mary Turner
Student Services	Lawrence G. Dun
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

Joseph Armstrong, Interim Dean
Auditorium 1, (916) 558-2491
Aeronautics (See Advanced Transportation Technology)
Cosmetology
Electric Vehicle Technology (See Advanced Transportation Technology)
Electronics Technology
Engineering Design Technology
Flight Technology (See Advanced Transportation Technology)
Graphic Communication
Mechanical-Electrical Technology
Metals Industry Technology
Motorcycle Maintenance
Photography
Railroad Operations (See Advanced Transportation Technology)
Recreational Vehicle Maintenance (See Advanced Transportation Technology)
Surveying (Geomatics) (See Engineering Design Technology)

Behavioral and Social Sciences

Kari Forbes-Boyte, Dean
Rodda North 226, (916) 558-2401
Administration of Justice
Anthropology
Early Childhood Education
Family and Consumer Science
Geography
Gerontology
History
Instructional Assisting
Political Science
Psychology
Social Sciences
Sociology

Business

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

Counseling Services

Lawrence Dun, Dean
Rodda North 111, (916) 558-2204
Human Career Development
Work Experience and Internships

Humanities and Fine Arts

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

Language and Literature

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

Learning Resources

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

Physical Education, Health and Athletics

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

Mathematics/Statistics & Engineering

Ronald Hatton, Interim Dean
South Gym 220, (916) 558-2201
Engineering
Mathematics
Statistics

Science and Allied Health Division

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

Robert M. Harris, Ph.D.

President's Message

Welcome to Sacramento City College, a community college whose core values are to serve its students by working together, pursuing excellence, and inspiring achievement.

Studying at SCC is a unique experience, one that attracts a wide range of students of diverse backgrounds, ages, abilities, and goals. Whether your goal is to transfer to a four-year college/university, start a career, brush up on basic skills, or pursue a special interest, SCC has instructional and student service programs that are designed to help you succeed.

SCC has a core of dedicated faculty and staff who are here to help you achieve your educational and career goals. There are many programs available to help you get the most from your SCC experience: orientation, tutoring, job placement, transfer counseling, Honors College, English as a Second Language, and many others.

While SCC is committed to helping you succeed, achieving your goals really depends on you! This catalog will serve as an important resource for you. Refer to these resources, ask questions, and take action to achieve your goals. You can go as far as you want to go.

I wish you every success as you experience the incredible opportunities that SCC has to offer you.

Robert M. Harris, Ph.D.

Robert M. Harris, Ph.D.
President

About the College

Our Core Values

Working Together • Pursuing Excellence • Inspiring Achievement

Our Mission

Sacramento City College, part of the Los Rios Community College district, is an open access institution that provides educational opportunities in the greater Sacramento region. The faculty and staff of the College will join with both potential and current students to help them identify their educational needs, provide personal, financial and educational planning and assistance, and explore and pursue a wide array of learning opportunities. Members of the College community are committed to the worth, dignity and potential for growth in every person. We will challenge one another and our students to imagine and pursue a future that stimulates each of us to the limits of our capacities to achieve.

Accreditation

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

Philosophy and Purpose of the College

Sacramento City College endorses an Open Door Policy. The college is accessible to all who wish to apply regardless of previous educational background. Additionally, the college prides itself in representing the cultural diversity of the community it serves.

The purpose of Sacramento City College is to provide opportunities for critical thinking, vocational training, social development, and personal growth. The college also responds to the emerging educational needs of our community.

To implement its philosophical commitments, the college provides a variety of programs:

General Education

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

Occupational Education

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

Developmental and Basic Skills Education

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

Lower Division Post Secondary Education (Transfer Education)

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

Courses by Television

Based on a series of programs aired over broadcast and cable television, telecourses are designed to provide high-quality course work to those students who are unable to attend on-campus classes. Additional work in telecourses includes readings, written assignments, and testing. To receive course details and an advance list of specific dates and meeting locations for on-campus class sessions, contact the Learning Center at (916) 558-2361.

Online Courses

To broaden and improve student access to education, the college is offering online courses. Online classes are those for which the majority of instructional delivery is conducted using the Internet or the World Wide Web. These courses involve the same curriculum components as a traditional class, with content presented through web pages and class discussion occurring through email, bulletin boards, and chat rooms. Refer to the Schedule of Classes.

Outreach Centers

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

These sites are:

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

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

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

Business and Professional Development—

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

Founding and Organization

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

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

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

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 deductive for tax purposes.

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.

Los Rios Community College District Non-Discrimination Policy

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

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

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

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

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

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

Inquiries can be directed as follows:

* **Equity Officer**

David Blackwell, Interim Associate Vice President, General Education and Outreach Programs, RN257, Instruction Office, (916) 558-2407, 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) 558-2407; Rodda North, Room RN 257; or Ann Aaker, Associate Vice Chancellor of Human Resources, Los Rios Community College District, 1919 Spanos Court, Sacramento, CA 95825 (916) 568-3101; or to the Director of the Office of Civil Rights, U.S. Department of Health, Education and Welfare, Washington, D.C.

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

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

LOS RIOS COMMUNITY COLLEGE DISTRICT BOARD OF TRUSTEES

Kay Albiani, Ann Blackwood, Terry Cochran, Pamela Haynes, Tim Loree, Bruce Pomer, 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.

The 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

Sacramento City College's Counseling Department offers a wide range of professional counseling services for community college students. Academic counseling is available to assist student in clarifying and planning their educational goals. Counselors help students complete an educational plan for a certificate, associate degree and/or transfer goals. Career counseling services assists students through the process of choosing the best major and career goals to fit their specific needs. Counselors guide students in exploring their personal values, aptitudes, and interests. Personal counseling services are provided to help students with life issues that may interfere with academic success. Counselors also provide Crisis Intervention services to students who experience acute emotional distress and require immediate attention.

All matriculating and first-time college students are encouraged to meet with a counselor prior to their enrollment. Counselors also encourage students to meet with a counselor once a semester or as needed to update their educational plan.

The counseling department also offers a variety of services that include first-time student orientations (on campus and online), online advising and special programs for student retention. Counselors teach Human Career Development courses that are designed to build and enhance student skills leading to academic and life success.

Services are available Monday through Thursday 7:30 a.m. to 8:00 p.m. and 7:30 a.m. to 5:00 p.m. on Fridays. Counseling services are available on a limited basis on weekends and at the Outreach centers. Counselors are located in the Counselor Center on the first floor of Rodda North. Call (916) 558-2204 for more information or to make an appointment.

Other programs located in the Counseling Center include Orientation, Planning and Placement, Disabled Resources Center, Health Services, International Student Center, and Transfer Center. See the sections in this catalog on these programs for more information.

Orientation

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

Online Orientation

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

eServices for Online Services

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

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

Outreach Program

The Articulation Specialist conducts Outreach activities. The purpose is to provide and reinforce accurate and up-to-date information, in person, on Sacramento City College's enrollment process, enrollment procedures and all requirements/activities related to these important components for new students.

Additional information on accessibility of the school's programs, services, activities, and resources are shared with students in elementary, middle/junior high, high schools and adults in various community organizations.

Campus Tours

Tours of the campus are coordinated by the Articulation Specialist on a request basis. Tours may be on an individual basis or may be a group tour as large as 90 people. Additional information may be obtained by contacting the Articulation Specialist.

Summer Bridge

New first time students can prepare for the transition to college by participating in the Summer Bridge Program (designed for EOPS eligible students). The program is six weeks long, Monday-Thursday, June 21-July 29 and consist of transition classes, field trips and other activities. Some of the benefits include free books, enrollment fees, parking, lunch, and job opportunities. Contact scceops@scc.losrios.edu for further information and an application.

Assessment

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

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

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

Senior Assessment for College (SAC)

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

Transfer Center

The Transfer Center assists students in transferring to four-year colleges and universities. The Center maintains current college and university catalogs, admission 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, Human Career Development 300-Strategies for Successful Transfer and Academic Success.

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

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

Disability Resource Center

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

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

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

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

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

Students seeking Educational Accommodations who do not wish to be referred to the SCC Campus Disability Resource Center will need to contact the SCC Campus Equity Officer, David Blackwell, Associate Vice President of Instruction and Community Outreach 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, students must be a current consumer of the California Department of Rehabilitation, and have a physical, mental, emotional, communication or learning disability. Services include career counseling, career development classes, resume and interview practice, and

job placement assistance.

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

Cultural Awareness Center (CAC)

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

The Center 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 ideas and opinions allow us to see things from many different perspectives, challenging us to think outside the box.

To live and work in a world that is diverse is to understand the need to become comfortable talking with people who are different from you. The Cultural Awareness Center is a safe place to celebrate what makes you different and to learn to appreciate the differences in others; it is an educational experience. For more information, please call (916) 558-2155 or visit our Website at http://www.scc.losrios.edu.

Career Center

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

Job Services

Student employment services are coordinated through the Job Services office located in the One-Stop Center. The office provides on campus job services and maintains job listings and referrals for off campus employment. Students contact off campus employers directly. Job announcements and descriptions are posted on the job board on the first floor of Rodda North, outside the Counseling Center. Additional job listings are available for viewing in job binders. Recruiters are on campus throughout the year to give job/career information or to interview for specific jobs. Students can receive assistance with resumes, interview skills, and job search strategies individually or through workshops. All services are available and accessible to all students. For students with disabilities who need assistance who use our services, we work in cooperation with the Disability Resource Center and Workability, a joint program between the Department of Rehabilitation and Sacramento City College. Employers can contact JOBTRAK (1-800-999-8725) to publicize a job. For general information, call (916) 558-2676.

Re-Entry Services

Re-Entry is a starting point for all students who are returning to school after an absence or interruption in their education. Re-Entry is a welcoming and supportive environment where students, potential students and staff can access information and referrals to a variety of programs and services available on campus and in the community. Assistance with admissions and enrollment procedures, appointments for personal, academic, and career counseling and a College Success class for re-entry students (Human Career Development 310 are offered. Re-Entry also provides ongoing services and programs including support groups, orientations, and workshops designed to help returning students adjust to college and make successful life and career transitions. Call (916) 558-2533 for information or for an appointment.

Health Services

The Health Office is located in the Counseling Center in Rodda Hall 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 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 $16.00 for the first appointment and $5.00 for additional appointments. Sealants, which prevent tooth decay, cost $5.00 per tooth. With a written request from a dentist, dental x-rays can be taken by either dental assisting or dental hygiene students. The fee for x-rays ranges from $10.00 to $20.00. For an appointment, call (916) 558-2303.

International Student Center

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

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

Students are advised to:

- Request an SCC International Admissions Packet as soon as possible by e-mail at the following address: http://www.intctr@scc.losrios.edu.
- Maintain full-time status and complete a minimum of 12 units or more each semester (W=withdrawals do not count as part of the 12 units)
- Notify INS of address changes by completing and mailing "Form AR-11" within 10 days of moving
- Notify SCC International Student Center and Admission and Records Office of address and educational major changes
- Maintain proof of Student Health and Medical Insurance coverage
- Have an original copy of college transcripts (translated into English) sent from all institutions attended to Sacramento City College, Admissions and Records Office
- Meet regularly with instructors and the International Advisor whenever any academic difficulties arise

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

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

The International Student Center is located in the Counseling Center, Rodda North 142. To schedule an appointment, please call (916) 558-2486.

Veterans Affairs

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

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

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

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

Office hours are Monday through Thursday, 11 a.m. to 7:30 p.m., and Friday, 8:30 a.m. to 4:30 p.m. For further information contact the office at sccveterans@scc.losrios.edu or (916) 558-2591.

Child Development Center

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

The center is open Monday through Thursday, 7:30 a.m. - 9:00 p.m. and Friday, 7:30 a.m. - 5:00 p.m.

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

For additional information call (916) 558-2542.

Library Services

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

Librarians are available to guide students through the research process at their own pace and according to their own needs whenever the library is open. Students are also encouraged to sign up for non-credit orientations to library services and resources. These orientations are designed to make course work easier and more rewarding. The Library also offers a variety of credit courses that teach library research skills and the use of the Internet for research. And selected credit courses are available 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 online catalog LOIS that identifies books, periodicals, and videos 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, international affairs, and current events through various databases and information resources tools. These electronic resources are available to the SCC community on the Web from any off-campus location simply by visiting the Library's web site at http://www.scc.losrios.edu/library.

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

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

Instructional Media Center

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

A second open-access computer lab is located in B-153 (Business Building) and provides additional PC computers for Internet access as well as basic personal productivity software (word processing, spreadsheet, paint/draw, etc.). Instructional assistance and guidance are also available to users of this lab.

Learning Skills and Tutoring Program

The Learning Skills and Tutoring Program provides learning opportunities and skills assistance to students who would like to be effective and successful learners. In the Learning Skills and Tutoring Center - located on the first floor of the Learning Resource Center - students will find: peer tutoring; online resources; Beacon PAL collaborative learning groups; courses in basic and study skills; 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, Communications Training, CIS, English, Math, ESL, Writing, Mac/CAD and various occupational labs).

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: www.scc.losrios.edu/~learnres.

Distance Education Program

The Distance Education program develops and supports a variety of alternative instructional delivery systems: cablecast courses by television (cablecast over the AT&T Sacramento Broadband System), live cable broadcasts (Interactive TV), and online courses are available through the Internet. These courses are offered to students who prefer a different learning style, who may wish to work more independently, who may need greater scheduling flexibility or who are unable or prefer not to come to the campus on a regular schedule. Students who enroll in these courses receive the same academic credit that is given for on-campus classes. Students are able to access these courses at home or in the Learning Resource Center.

For a current listing of distance education offering, consult the Schedule of Classes or check the Distance Education website at www.scc.losrios.edu/de.

Open-Access Computer Labs

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

Learning Communities

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

Human Services Courses (Skill Building, Tutor Training)

Individualized instruction designed to help students acquire, improve or refresh basic reading, writing or arithmetic skills is offered as Human Services 200, 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 Center Coordinators to determine the curriculum to be mastered. Instruction is offered via computer-assisted instruction in the Learning Skills and Tutoring Center (Learning Resource Center). Students may earn .5 - 4 units in this course

The availability of peer tutoring is an important piece in SCC's effort to support student success. And SCC knows that good tutors are shaped by good training Human Services 38, Introduction to Group Peer Tutoring, offers instruction on becoming a group peer tutor and Human Services 43A, Introduction to Tutor Training, offers instruction on individual peer tutoring, both are one-unit. For more information stop by and talk with one of the Learning Skills and Tutoring Center Coordinators.

Human Career Development Instruction (Academic Skills)

All students can benefit from Human Career Development 360 - Academic Skills. This is offered as a modularized, independent-study course that is designed for students who want to study independently to improve their academic skills. The course is 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 their study skills.

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

The Learning Resource Center (LRC) is a resource for student learning and intellectual exploration. And it is a place where students can find solitude, space for group study and collaborative work, and room to plan, sort and organize reports or projects. This spacious, comfortable, state-of-the-art building on the south perimeter of the campus quad houses the Library, Instructional Media Center, and Learning Assistance and Tutorial Center as well as services for faculty and staff. The LRC provides extensive collections of books, periodicals, videos, films, microforms, software, and electronic databases to support the educational needs of SCC students. Many of these resources are available from off-campus via the web.

The Learning Resource Center is electronic classrooms, an entire floor of quiet study space, group study rooms, computers, and laptop computer ports throughout the building. And it is librarians, learning skills and tutoring coordinators, paraprofessionals, and student support staff who assist learners at every stage in the study and research processes, helping them to build lifelong information competency skills as well as the skills they need to succeed at SCC and throughout their college years.

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.

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.

Campus Police Services

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

Student Parking at SCC

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

Parking Permits

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

Disabled (Handicapped) Parking

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

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.

Shuttles

Evening shuttles run from the student lots to the campus Monday through Thursday until 9:30 p.m. This shuttle is only in effect if ridership dictates the need for shuttle service.

Liability

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

Bicycle Lockers and Racks

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

Motorcycles

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

RT Bus and Light Rail

A number of buses serve the Sacramento City College campus and can be boarded on Freeport Boulevard and on Sutterville Road adjacent to the campus. These buses can provide access to Light Rail transfers and other public transportation services connecting Sacramento with adjacent counties. Check the transportation information display in Rodda North for current information or contact Sacramento Regional Transit at 321-BUSS (2877).

Sacramento Regional Transit's south line extension will be opening the City College Station in September 2003 for direct access to the College. The new station is located on the east side of Hughes Stadium. A shuttle service will be available for student use.

City of Sacramento Car Pool Spaces on 12th Avenue.

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

Student Leadership and Development Rideshare Matching Bulletin Board

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

Financial Assistance

Administration

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

Financial Aid

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

Sacramento City College participates in a number of programs to assist low and middle income students. To receive financial aid, a student must enroll in an eligible program that leads to a degree or certificate. Please note that a few certificate programs do not meet the minimum qualifications to be an eligible program. Contact the Financial Aid Office for details. Students can apply by completing the Free Application For Federal Student Aid (FAFSA). Applications are available in January. A priority deadline of March 1, 2005 has been set to ensure early processing of financial aid applications for the 2005-2006 school year. However, applications are accepted throughout the academic year. All awards are subject to the annual allocation of funds from the federal and state government. All students are encouraged to contact the Financial Aid Office for further information.

Enrollment Fee Waiver

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

Federal Pell Grant Program (FPELL)

The Pell Grant is a need-based grant program sponsored by the Federal government. Information may be obtained in the Financial Aid Office. Priority application deadline is March 1, 2005 for the 2005-2006 school year.

California Student Aid Commission Grants (CAL GRANTS)

The California Student Aid Commission offers Cal Grants each year. The GPA Verification Form, required to apply for Cal Grants, is available in the Financial Aid Office. The FAFSA and completed GPA Verification Form must be postmarked by March 1, 2005 for the 2005-2006 school year. Further information on Cal Grants may be obtained in the Financial Aid Office.

Federal Work Study Program (FWS)

Employment is offered on and off campus to qualified financial aid applicants with the purpose to give meaningful work experience to students with financial need. Portions of FWS funds are available to place eligible students with agencies providing community services. Eligibility is determined by completing the FAFSA process. Priority application deadline is March 1, 2005 for the 2005-2006 school year.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is for undergraduate students with exceptional financial need and gives priority to students with Pell eligibility. Eligibility is determined by completing the FAFSA process. Priority application deadline is March 1, 2005 for the 2005-2006 school year.

Federal Stafford Student Loans - Subsidized And Unsubsidized

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

Satisfactory Progress Policy

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

Ability To Benefit

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

Basis for Denial of Financial Aid

Financial Aid may be denied for the following reasons:

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

Student Expenses

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 2005-2006 academic year:

Room and Board:	Lives at home	$3168
	Lives away from home	$8172
Personal Expenses:	All Students	$1204
Transportation:	Lives at home	$828
	Lives away from home	$936
Books and Supplies:	All students	$1224
Enrollment fees (average):	All Students	$540
Total:	Lives at home	$6964
	Lives away from home	$12076

Maintenance Allowance

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

Extended Opportunity Program and Services (EOP&S)

EOP&S is a student support program for educationally and economically disadvantaged students, funded by the State of California and the Los Rios Community College District. It is designed to provide opportunities in higher education for students with academic potential who, historically, would have not attended college. EOP&S provides support services: EOP&S orientation, counseling, priority registration, financial aid processing, monitoring academic progress, tutors, book vouchers, university admission application fee waivers, cultural awareness activities, workshops and award ceremony.

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

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

CalWORKs Program

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

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

Anyone who is thinking of enrolling in classes and has already signed their county Welfare-to-Work Agreement must speak to their county worker prior to enrollment. County workers can provide clients with Vocational Assessment and referral to short term training programs.

The Sacramento City College CalWORKs Program is located in the One Stop Center. Office Hours are Monday through Friday, 8:00 a.m. - 5:00 p.m. Please call (916) 558-2307 for Informational Orientation dates and times.

General Scholarships

Sacramento City College offers more than 180 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 create good will for community college education, and many times, to memorialize a loved one.

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

Requests for further information may be directed to the Office of College and Community Relations, Rodda North 222, or call (916) 558-2197.

Student Leadership and Development

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

Student Leadership and Development Programs and Services:

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

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

Bulletin Board Posting(s)
Student Leadership and Development will assist students and college organizations by 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. A printed list of apartment complexes near the college is also available in our office.

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.

Student Identification Cards
On behalf of the Associated Student Government, Student Leadership and Development provides photo ID cards for all enrolled students. The fee is $5 per semester or $9 per academic year (excluding summers). To obtain an ID card, pay at the Business Office in Rodda North and then bring your receipt to the Student Leadership and Development Office to have your picture taken and card processed. Your card will then be ready for pick-up in approximately 24 to 48 hours. Benefits include various campus and community discounts.

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

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. The following is a list of chartered clubs:

Act Now to Stop War and End Racism (ANSWER)

African Scholars' Alliance

American Medical Student Alliance

Chess Club

City Signers

Club DiverCity

Dance Club

Electronics Student Association

Hmong Culture Club

Honors Club

International Life Club

Le Club Francais

Motorcycle Club

Movimento Estudiantil Chicano de Aztlan (MEChA)

Muslin Student Association

National Organization for Women - SCC Chapter

Nurses Association

Polynesian Connection

Psychology Club

Queer Straight Alliance

Science, Math, and Engineering Club (SMEC)

Society of Hispanic Professional Engineers (SHPE)

Student Gospel Choir Club

Studies in the New Testament

Waste Reduction and Recycling Club

Yoga & Meditation Club

Associated Student Government (ASG)

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

The purpose of student government is to encourage student participation in the governance of the college, a concept called participatory decision making. Students are encouraged to become involved in campus-wide development and decision-making processes by joining standing committees such as:

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

Appointments of students to these committees is by application through the ASG office. A student interested in serving on campus-wide committees does not have to be a member of ASG. Membership in ASG is open to any SCC student, registered in at least six (6) units and maintaining a minimum GPA of 2.0 to 2.5 depending on the office.

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

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

College Standing Committees

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

Admission

Eligibility for Admission

Scholastic: Admission to the college, as prescribed by law, is open to: (1) any high school graduate; 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) 558-2376, 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 which must be honored. The application for enrollment includes a "Statement of Residence." Nonresident students do not automatically become California Residents by merely living in the state more than one year. State law also requires proof of intent to establish California residency. Such proof can include filing California Income Tax forms, voter registration, driver license, vehicle registration, and other acts of intent dated one year and one day prior to the start of the semester. The law also requires that the student show no contrary intent, that is, they must not have maintained residence status in their former state (i.e. driver license, taxes, car registration, etc.) The burden of proof rests with the student, not the district. The residency laws do not permit 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 $149 per unit plus enrollment fee of $18 per unit.

In addition, students who are both citizens and residents of a foreign country will be assessed an additional $11 per unit fee for capital outlay purposes.

Open Courses

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

Enrollment Procedures

I. **Applicants for enrollment** should submit the following documents with Admissions/ Records Office by July 16, for the Fall semester of 2004 and by December 17 for the Spring semester of 2005:

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

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

C. **Orientation:** Participate in Orientation. Phone (916) 558-2540 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 well as a campus tour. A counselor will participate in Orientation. As an alternative to the traditional Orientation session, SCC offers an Online Orientation followed by an appointment with a counselor.

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

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

California Resident Fees: $18.00 per unit.

Out-of-State Non-Resident Fees: $167.00 per unit ($18.00 per unit, plus $149.00 per unit, non-resident fee, total $167 per unit)

International Student Fees: $171.00 per unit ($18.00 per unit, plus $149.00 non-resident fee per unit, plus $19 international fee, total $181 per unit)

Enrollment Fee Waiver

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

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

III. **Transfers from other community colleges**—Students who have previously attended another college and are in good standing are eligible to enroll at Sacramento City College, subject to residence requirements. Students should arrange a counseling appointment after their transcripts have been received to review their progress towards a degree or objective. All applicants should submit transcripts of other college records (if applicable). NOTE: Only official transcripts sent directly from the schools to Sacramento City College will be accepted. These should include any summer session or correspondence courses. All records submitted become the property of the college and will not be returned to the applicant. All transcripts must be received by the Admissions/Records Office by July 16 for Fall 2004 and December 17 for Spring 2005, or registration may be delayed. Students who have been disqualified by another college will not be admitted in the semester immediately following their attendance at that college. After one semester's absence, such students may be admitted subject to the Academic Standards Policy.

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

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

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

VI. **International Students**—International students who wish to enter Sacramento City College must contact the International Student Counselor in order to receive information relative to admission. Such students should initiate an application for admission at least six months prior to the first day of instruction. International students are charged "non-resident" tuition. International students (F/J/M visas) are required to show evidence of an approved Health/Accident Insurance coverage throughout the duration of their studies.

VII. **Advanced Education Students (K-12)** Advanced education is intended to provide K-12 students with educational enrichment opportunities at the community college. To ensure success as an Advanced Ed student the following questions and answers related to the program have been developed. College classes often include adult/mature subject matter.

Who can enroll in advanced education classes:

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

What courses are excluded from the advanced education program:

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

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

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

How do I register for class:

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

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

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

Matriculation

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

Here is how the matriculation process works:

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

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

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

3. **Orientation**
   Orientation and advising are provided for all first-time college students. They are generally scheduled weekly throughout the registration period for Fall and Spring. The sessions cover information about SCC programs, services, policies and procedures and also include a campus tour. Counselors provide advising related to course selection. Students desiring additional help are encouraged to augment the pre-registration orientation through special instructional programs.

4. **Counseling and Educational Plan Development**
   All matriculation students must meet with a counselor during their first semester to develop their educational plan. This plan will outline how they will achieve their educational goal. Extra assistance is available for students who are undecided about their goal.

5. **Register for Classes** - SCC eServices and Telephone Enrollment System

   At Orientation students will receive information on procedures and dates for telephone registration.

   California resident fees: $18.00 enrollment fee per unit per semester. Enrollment fees may increase for 2004-05.

   Out-of-State non-resident fees: $18.00 per unit plus $149.00 non-resident fee per unit, total $167 per unit

   International student fees: $18 per unit, plus $149.00 non-resident fee per unit, plus $14.00 international fee per unit. Total $181.00 per unit

6. **Follow-Up- 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. Between the efforts of faculty and counseling, 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.

Guidelines of Residency

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

Residence Requirements

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

The residence determination dates are as follows:

Summer, 2004 semester-June 6, 2004

Fall, 2004 semester-August 15, 2004

Spring, 2005 semester-January 17, 2005

All students classified as non-residents are required to pay a non-resident tuition fee of $149 per unit at the time of registration. In addition, students who are both citizens and residents of a foreign country will be assessed an additional $18 per unit fee for capital outlay purposes. Non-resident tuition fees are refundable only during the first two weeks of a semester or the first week of the Summer Session if the student withdraws from a class or from the college. If a student is erroneously determined to be a non-resident and a tuition fee is paid, the fee is refundable provided acceptable proof of state residence is presented within the period for which the fee was paid. Refund requests will be processed only if accompanied by the receipt issued at the time of payment.

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

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

Non-resident Tuition Refund Schedule

Time of Withdrawal or Reduction	Amount of Refund (%) Per Unit of Reduction
Fall and Spring (Full semester classes)**	
By the end of the second week of instruction	100%
After the second week of instruction	No refund
Fall-Sunday, August 29, 2004	
Spring-Tuesday, February 1, 2005	
Summer	
By Thursday of first week of instruction	100%
After Thursday 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 with the Admissions and Records Office.*

Standing Upon Admission

Advanced Placement Examination Credit—Sacramento City College gives advanced standing credit (15 unit maximum) to students who receive recommending grades on College Entrance Examination Board Advanced Placement examinations in subject matter or in advanced placement courses offered in high school. Students receive unit credit but not letter grades for these courses. Such courses do not enter into computation of cumulative grade point average for transfer or graduation. Specific information is available from Admissions and Records and Counseling.

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

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

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

Prior Requirements

To register a student must:

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

Enrollment Procedures

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

Program Regulations

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

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

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

Repetition of Substandard Grades (D, F, or NC Grade)—Students may repeat courses where a substandard grade was assigned if the course was taken at an accredited college for which substandard grades have been recorded. The grade earned in the second or

last enrollment shall be used exclusively in determining the grade points earned for the particular course at Sacramento City College. All previous grades must remain legible on the permanent record. Except for the classes in departments noted below, prior approval is not required to repeat a substandard grade unless the student is repeating a substandard grade for the second time. Repeated grades will be automatically discounted.

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

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

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

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

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

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

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

Full governmental subsistence for veterans requires the following unit load:

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

The following categories require the minimum unit load indicated:

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

Catalog Rights-Election of Requirements

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

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

Credit—No Credit Grading

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

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

Credit By Examination/Course Challenge

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

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

Any request for credit by examination must originate by the fifth week of instruction.

Permission to challenge a course for credit must be obtained from the appropriate division dean and the instructor administering the examination. 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 non-resident fees for all challenged courses.

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

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

Expenses

Enrollment Fee. All students must pay an enrollment fee of $18 per each unit per semester.

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

Non-Resident Tuition. Students who have not established legal residence in California are required to pay a tuition fee. The tuition is set by the State of California each year. For the 2004-2005 school year tuition is $149 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 $17 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.

Student Body Fee. There is no compulsory student body fee for students at Sacramento City College. Students are encouraged, however, to purchase a Student Identification card available through the Associated Students for a nominal fee ($5/semester or $9/year). This card entitles those who wish to purchase it to discounts on campus services, reduced rates for athletic events, and personal check cashing privileges ($5.00 limit) at the Business Office. There are also many discounts given at local businesses upon presentation of the I.D. card. For more information, call the Associated Students Office at (916) 558-2446.

Textbooks and Supplies. Students purchase their own textbooks and supplies. The College Store sells all required items.

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

Drug and Alcohol Free Campus

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

District Policy

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

Legal Sanctions

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

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

Health Consequences

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

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

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

Campus Security Act of 1990

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

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

Annually, on October 1, all campus crime statistics are published for public dissemination. These data are also available on the SCC Web site under Campus Police and are also available in a variety of publications including the College Catalog, Schedule of Classes, and student newspaper. In addition, a hard copy of the date may be obtained from the College Police Office located on the corner of East and Library Road.

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

Visitors to the College

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

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

Student Right-to-Know Disclosure

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

Academic Standards

Standards of Scholarship

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

Academic Expectations

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

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

Units of Work

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

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

Basic Skills Unit Limitation

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

Grades and Grade Point Averages

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

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

Grade Reports

Once during each semester all students will 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, they should consult with instructors to determine the cause of their difficulty and the steps to be taken to improve their performance. Final grade reports are issued after the end of each semester and are available at www.scc.losrios.edu.

Good Standing

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

Grades of Incomplete

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

Academic Renewal Without Course Repetition

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

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

Scholastic Honors

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

Honors at Graduation

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

Probation

There are two types of probation-academic and progress.

Academic Probation

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

Progress Probation

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

Unit Limitation

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

Removal from Probation

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

Computations

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

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

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

Dismissal

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

Progress Dismissal

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

Dismissal Period

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

Appeal Option

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

Exceptions:

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

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

Satisfactory Progress

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

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

Athletics

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

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

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

Attendance

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

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

No Shows

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

Withdrawal From Class (Drops)

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

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

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

Course Selection

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

Prerequisites

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

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

College level reading and writing generally means eligibility for ENGWR 100, or ESLW 340 or ESLR 340.

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 Admissions and Records 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:

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 that manner.

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

Change of Address or Name

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

Access to Student Records

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

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

Student Rights and Responsibilities

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

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

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

Student Conduct

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

Student Grievance Policy

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

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

Informal Grievance,

Level 1-

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

Formal Grievance,

Level 2-

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

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

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

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

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

Level 3-

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

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

Level 4-

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

Where: President, RN275.

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

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

When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor in the absence of mistake, fraud, bad faith, or incompetence shall be final.

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

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

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

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

Graduation

General Education

The primary function of education is to transmit from each generation to the next the knowledge and skills requisite to enlarge the comprehension of our place in the universe. Sacramento City College is committed to the principle of providing general education which includes: Natural Science, Social and Behavioral Science, Humanities and the Arts, Language and Critical Thinking, and other courses that provide for lifelong learning and understanding, and that explore the significance of work, production, consumption and leisure in the lives of individuals. All of these are basic and necessary to participate in and contribute to a balanced life in a democratic society that is diverse in its social, cultural, and educational backgrounds.

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

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

Do you expect to complete all requirements for graduation or transfer to a four-year school in this next semester?

Students who are entering their final semester at SCC can qualify for priority registration (just 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 to get the form for early registration completed. The counselor will submit the form to Admissions and Records to have your new registration appointment entered. For more information, contact Counseling or Admissions and Records.

Graduation

A.A./A.S. GRADUATION REQUIREMENTS 2004-05

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

1. Complete a minimum of 60 degree applicable units to include: a grade point average of 2.0 ("C" average), at least 12 units completed at Sacramento City College.
2. Complete the required courses for a "Major" offered at Sacramento City College (see catalog for the list of majors), general education requirements, and sufficient electives for a minimum of 60 units total.
3. Complete all general education requirements, Areas A, B, C, D, E and F.
4. Complete all three (3) Competency Requirements (reading, writing, and mathematics).

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

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

AREAS				MIN. UNITS	COM-PLETED	IN PROGRESS	NEED
Area A - Natural Science (3 units minimum) - Courses designated with a (L only) indicates a lab course only for one unit.							
ANTH ASTR BIOL CHEM GEOG GEOL PHYS PSYC	300, 301 (L only), 480 310, 320, 330, 435 100, 305, 308, 309 (L only), 320, 323, 330, 342, 350, 370, 402, 412, 422, 430, 431, 440, 464, 466 300, 305, 306, 320, 330, 336, 400, 401, 420, 421, 425, 426 300, 301 (L only), 306 302, 305, 308 310, 350, 360, 410, 420, 430 310, 315, 394			3			
Area B - Social Science (6 units minimum) - One course from B1 and one from B2							
1. HIST POLS	American Institutions (3 units): 310, 311, 314, 317, 320, 321, 370, 371, 483, 484, 485 301, 481			3			
2. ADMJ ANTH BUS COMM ECON ENGWR FCS GEOG GERON HIST	Other Social Sciences (3 units): 342 310, 315, 320, 332, 334, 481 300 325*, 328*, 341*, 351, 363 100, 302, 304, 480 384 312, 314, 324, 326, 330 310, 312, 320, 322, 480 300 300*, 302*, 305*, 307, 308, 309, 344, 346, 360, 364*, 365*, 373, 380*, 480*, 494	JOUR PHIL PET POLS PSYC SOCSC SOC	310, 320 368*, 482* 304 302, 310, 320, 322, 340, 480, 494 300, 320, 340, 342*, 350*, 360, 363, 367, 370, 390*, 480, 489, 494 300, 320, 325, 330, 332, 335, 336, 350 300, 301, 305*, 310*, 312, 321, 335, 341, 343, 375, 380, 382, 480	3			

Area C - Humanities (3 units minimum)				**MIN. UNITS**	**COM-PLETED**	**IN PRO-GRESS**	**NEED**
ANTH	330			3			
ART	300, 320, 370, 390, 443						
ARTH	300, 302, 304, 306, 308, 310, 312, 320, 324, 328, 330, 332						
COMM	301*, 302*, 305, 325*, 341*, 371*						
ENGCW	400, 410, 420, 431, 450						
ENGLT	303, 304, 310, 311, 320, 321, 325, 331, 332, 334, 335, 345, 346, 360, 370, 380, 392, 400, 401, 480, 481, 494						
ENGWR	301*						
ESL	326						
ESLR	340						
FASHN	330						
	Foreign Languages:						
	CANT 401, 402, 411, 412	MAND 401, 402, 411, 412					
	FARSI 401, 402	RUSS 401, 402					
	FREN 401, 402, 411, 412	SPAN 401, 402, 411, 412, 431, 432					
	GERM 401, 402, 411, 412	TGLG 401, 402					
	JAPAN 401, 402, 411, 412	VIET 401, 402					
	KOREAN 401, 402						
HIST	300*, 302*, 305*, 364*, 365*, 380*, 480*						
HUM	300, 310, 332, 350, 352, 480, 483						
MUFHL	305, 309, 310, 311, 315, 320, 331, 332, 400, 481, 482						
PHIL	300*, 302, 310, 317, 320*, 330, 331, 338, 352, 353, 368*, 480, 481, 482*, 499						
SILA	305, 306, 310, 311, 320, 330						
TA	300, 302, 303, 310, 312, 342* (2 units), 350, 351, 360, 395						
Area D - Languages and Rationality (6 units minimum) - One course from D1 and one from D2							
1.	English Composition (3 units):			3			
BUS	310						
ENGWR	100, 300, 301*, 302						
ESLW	210, 340						
MET	220						
TECH	103						
2.	Communication and Analytical Thinking (3 units):			3			
AERO	300	GEOG	330				
CISC	300 (1 unit), 310, 320 (1 unit), 321 (1 unit)	HIST	400				
CISN	136, 146, 300, 302, 303, 306, 308, 315 (2 units), 320, 322, 324, 370, 379	MATH	100, 104, 110, 120, 123, 124, 170 (2 units), 300, 310, 334, 340, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482				
CISP	301, 310, 342, 360, 370, 371, 400, 401, 440	MET	352				
CISS	300 (1 unit)	PHIL	300*, 320*, 322, 325				
CISW	400, 405, 410, 420	SOC	305*				
COMM	301*, 302*, 311, 315*, 316, 331, 343, 345, 361, 371*	STAT	300				
		SURVY	300				
ECON	310, 482	TA	342* (2 units)				
ET	310 and 311						

Area E - Living Skills (3 units minimum) - One course from E1 and one from E2				**MIN. UNITS**	**COMPLETED**	**IN PROGRESS**	**NEED**
E1. Physical Education (1 unit) - any activity course from: ADAPT, DANCE (except DANCE 320, Ballet), FITNS, PACT, TMACT (except TMACT 364, Intramural Sports, or TMACT 366, Spirit Squad) NOTE: Exemption to the physical education activity course is permitted for students with medical excuses on file. Students not completing a physical education activity course on the basis of this exemption shall be required to complete a minimum of 3 units in Area E2.				1			
Area E - Living Skills (3 units minimum) - One course from E1 and one from E2							
E2.	Other Living Skills (2 units):			2			
ADMJ	303	HCD	310, 312, 318, 330 (1 unit)				
BUS	320, 498	HSER	375				
COMM	315*, 321, 323, 328*, 335	LIBR	318 (1 unit)				
ECE	415	PET	307				
ENGED	320	PSYC	342*, 350*, 353, 356, 358, 374, 376, 390*, 392, 405				
FASHN	310						
FCS	320, 332, 340, 344, 480	SOC	310*, 344, 344.1to 344.6 (must complete 3 units total)				
GERON	302						
HEED	300, 320	WEXP	198, 298, 498				
Area F - Ethnic/Multicultural Studies (0-3 units minimum). The course may be completed as part of the 21units of the General Education pattern, as a course required by the major, or as an elective course.				**MIN. UNITS**	**COMPLETED**	**IN PROGRESS**	**NEED**
ADMJ	302	HIST	307, 308, 309, 310 (eff. F99), 311 (eff. F99), 320, 321, 344, 360, 364, 365, 370, 371, 373, 380, 483 (eff. F00), 484 (eff. F01)	0 or 3			
ANTH	310, 315, 330, 332, 334, 481						
ARTH	320, 324, 328, 330, 332						
BIOL	323						
BUS	330						
COMM	325	HUM	332				
ECE	430	JOUR	320				
ENGLT	334, 335, 346, 360, 401, 480, 481	MUFHL	331, 332				
		PHIL	302, 317, 352, 353				
ESL	326	PSYC	367				
ESLR	340	SOC	321, 330				
GEOG	310	SOCSC	300, 320, 325, 330, 332, 335, 336				
		TA	308 (Diversity in Theatre), 318, 454, 455				

Competency Requirements - Complete all three areas (A, B, and C)	REQUIRED	COM-PLETED	IN PRO-GRESS	NEED
A. READING Competency 1. Achieve a qualifying reading score on the first or second English assessment or 2. Complete one of the following courses with a grade of "C" or better: ENGRD 310 ESLR 340 or 3. Obtain a satisfactory score on a college-level reading examination or 4. Possess an AA/AS degree or higher from an accredited college in the U.S. or 5. Pass an equivalent course at an accredited college.	0-3			
B. WRITING Competency 1. Complete one of the following courses with a grade of "C" or better: BUS 310 ENGWR 100, 300 ESLW 210, 340 MET 220 TECH 103 or 2. Pass an equivalent course ("C" grade or better) at an accredited college in the U.S. 3. Possess an AA/AS degree or higher from an accredited college in the U.S.	0-3			
C. MATHEMATICS Competency 1. Complete one of the following courses with a grade of "C" or better: MATH 100, 104, 110, 120, 123, 124, 170, 300, 310, 334, 340, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482 CISP 342 ET 311, 315 STAT 300, 480 or 2. Obtain a satisfactory score on the mathematics competency examination or 3. Pass an equivalent course ("C" grade or better) at an accredited college in the U.S.	0-3			

Credit By Examination

Under special circumstances and with the concurrence of the department, students regularly enrolled and in good standing and who believe they are qualified by experience or previous training may take a special examination to establish credit in a course in which they are not formally enrolled. A student who wishes to challenge a course by examination must have successfully completed a minimum of 12 units at SCC with a grade of "C" or better. Successful completion of a course by examination is recorded on the permanent record as a "CR" grade. The "CR" grade does not enter into the computation of the student's grade point average.

Any request for credit by examination must originate by the fifth week of instruction.

Permission to challenge a course for credit must be obtained from the appropriate division dean and the instructor administering the examination. 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.

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

Application for Graduation

Candidates for graduation must initiate a petition for graduation. Petitions are available at sccgrad@scclosrios.edu or in the Admissions and Records office.
The deadline date to file for graduation can be found in the College Calendar printed in the Schedule of Classes.
Degrees are awarded at the May Commencement exercise only and all students receiving degrees are encouraged to attend.

The Distinguished Service Award

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

Transfer Information

Transfer Center Assistance

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

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

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

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

Transfer to California State University, University of California, and Private Colleges

Students planning to transfer to a California university should plan a program to meet the admissions and graduation 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, and consult a counselor for the specific requirements for that particular institution and to create a written educational plan.

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

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

Community College Transfer

Students who were not eligible for admission to a CSU when they graduated from high school may be eligible once they have completed a minimum of 56 transferable units (some CSUs are requiring 60 transfer units) with a 2.0 grade point average or better (2.4 for international or non-resident students) and the following additional requirement:

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

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

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

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 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 lower-division general education courses at a community college, but nine units of upper-division courses must be completed at the CSU.

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

CALIFORNIA STATE UNIVERSITY
General Education-Breadth Requirements
2003-04

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:

56 transferable units to include a minimum of 30 units from the General Education-Breadth Requirements,
Completion of Area A, sections 1, 2 and 3 and Area B, section 3 with a grade of "C" or better,
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	COMPLETED	IN PROGRESS	NEED
A. Communication - Oral, Written, Critical Thinking (9 units minimum) One course from each numbered section (A1, A2, and A3)					
A1. COMM	301, 302+, 311, 331, 361	one			
A2. ENGWR ESLW	300, 480 340	one			
A3. COMM ENGWR PHIL SOC	302+ (until Fall 2004), 311, 316 302 300**, 320, 325 305	one			

AREA				MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
B. **Physical Universe and Its Life Forms** (9 units minimum) - One course from each numbered section (B1, B2, and B3). One of the science courses in B1 or B2 must have a laboratory component - designated with an (L).							
B1. ASTR CHEM GEOG GEOL PHYS	Physical Universe: 310, 320, 330, 400(L), 300(L), 305(L), 306(L), 320(L), 330 (331 is the lab), 331(L), 336(L), 400(L), 401(L), 410(L), 420(L), 421(L), 425(L), 426(L), 484(L) 300, 301(L), 306 302(L), 305, 306(L), 308, 310, 311(L), 345, 350(L) 310, 350(L), 360(L), 410(L), 420(L), 430(L)			one or one with lab			
B2. ANTH BIOL PSYC	Life Forms: 300, 301(L), 480 305(L), 308, 309(L), 342**, 350, 370(L), 402(L), 412(L), 422(L), 430(L), 431(L), 440(L), 464 (465 is the lab), 465(L) 310, 315, 394			one or one with lab			
B3. CISP ECON MATH STAT	Mathematics/Quantitative Reasoning: 440 310, 482 300, 310, 334, 340, 342, 350, 351, 370, 400, 401, 402, 410, 420, 482 300, 480			one			
C. **Arts, Literature, Philosophy and Foreign Language** (9 units minimum) One course from each numbered section (C1, C2, and C3). NOTE: Courses designated with an * in area C1or C2 are repeatable for credit, only one can be used to satisfy the general education requirement in Area C.							
C1. ART ARTH COMM ENGLT MUFHL MUIVI MUP MUSM TA	 300, 320, 370*, 380*, 390, 400* 300, 302, 304, 306, 308, 310, 312, 320, 324, 328, 330, 332 305+ (until Fall 2004) 400 **Music:** 305, 309, 310, 311, 315, 320, 331, 332, 400, 481, 482 300*, 302, 315*, 325, 345, 365*, 366*, 367*, 368*, 380, 381, 382, 383, 441*, 443*, 445*, 447* 315*, 325*, 335*, 340*, 355*, 402*, 411*, 413*, 415*, 417* 342*, 344 300, 302, 303, 308, 310, 312*, 318+, 320*, 342* (2 units), 350 (until Fall 2004), 360*, 370*, 372, 404, 422, 430*, 437 (2 units), 452*, 454*			one			
C2. COMM ENGCW ENGLT ENGWR ESLR FASHN CANT FARSI FREN GERM JAPAN	 305+ (until Fall 2004) 400, 410, 420, 431 303, 304, 310, 311, 320, 321, 325, 331, 332, 334**, 335, 345, 346, 360, 370, 380, 392, 401, 480, 481, 494 301 340 330 **Foreign Languages:** 401, 402, 411, 412 401, 402 401, 402, 411, 412 401, 402, 411, 412 401, 402, 411, 412	HIST HUM PHIL SILA TA KOREAN MAND RUSS SPAN TGLG VIET	 300**, 302**, 305**, 307**, 308**, 364**, 365**, 373**, 480** 300, 310, 332, 350, 352, 480, 483 300**, 302, 310, 317, 330, 331, 338, 352, 353, 368**, 480, 481, 482** 306, 310, 311, 330 318+ 401, 402 401, 402, 411, 412 401, 402 401, 402, 411, 412 401, 402 401, 402	one			
C3. Additional courses may be chosen from either section above to make a total of 9 units in Area C.				one			

AREA				MIN. COURSES	COM-PLETED	IN PRO-GRESS	NEED
D. Social, Political and Economic Institutions and Behavior (9 units minimum) Two course combination from D1 (D1a or D1b or D1c), and one course from D2.							
D1a. POLS 301+ plus HIST 310 or 311 or 317 or 320 or 321 or 370 or 371 or 483 or 484				one plus one			
D1b. HIST 320 plus HIST 311 or 314 or 321 or 484 or 485							
D1c. HIST 310 or 483 plus HIST 311 or 314 or 321 or 484 or 485							
D2.				one			
ADMJ	302, 303, 342	JOUR	310, 320				
ANTH	310, 315, 320, 330, 332, 334, 481	PHIL	368**, 482**				
BIOL	323	POLS	301+, 302, 310, 320, 322, 340, 480, 481				
BUS	330, 345	PSYC	300, 320, 335, 340**, 350, 356**, 360**, 363, 367, 370**, 376, 390**, 392** (4 units minimum), 405, 480				
COMM	321, 325, 328, 335, 341, 351, 363						
ECON	302, 304, 480						
ENGLT	334**	SOCSC	300, 320, 325, 330, 332, 335, 336, 350, 360				
ENGWR	384						
FCS	312, 314, 320**, 324**, 326, 330**	SOC	300, 301, 310**, 312, 321, 330, 335**, 341, 343, 344**, 344.1** to 344.6** (must complete 3 units total), 375, 480				
GEOG	310, 312, 320, 322, 480						
GERON	300**						
HIST	300**, 302**, 305**, 307**, 308**, 309, 344, 346, 360, 364**, 365**, 373**, 400, 480**						
E. Lifelong Understanding (3 units minimum)							
BIOL	342**			3 units			
BUS	320						
FCS	304, 320**, 324**, 330**, 332, 340, 344, 480						
GERON	300**, 302						
HEED	300						
HCD	310						
HSER	375						
PE	(one unit maximum) any course from: ADAPT, DANCE, FITNS, PACT, SPORT, TMACT (except TMACT 364 or TMACT 366)						
PSYC	340**, 342, 356**, 358, 360**, 370**, 374, 390**, 392** (2 units), 410, 410.1 to 410.6 (must complete 3 units total)						
SOC	310**, 335**, 344**, 344.1** to 344.6** (must complete 3 units total)						

University of California System

Admission Requirements

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

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

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

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

    a. Complete 60 semester (or 90 quarter) units of transferable college credit with a grade point average of at least 2.4 (2.8 or higher for non-resident students), and;
    b. Complete the following course pattern, earning a grade of C or better in each course:
        * two transferable college courses (3 semester or 4-5 quarter units each) in English composition; and
        * one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and
        * four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

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

UC Transferable Courses

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

General Education Requirements and Certification

General education requirements are designed to give University undergraduates a broad background in all major academic disciplines. Each school and college at every UC campus 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)

Intersegmental General Education Transfer Curriculum (IGETC)
University of California or California State University
2003-04

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

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

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

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

AREA				MIN. COURSES	COMPLETED	IN PROGRESS	NEED
Area 1- English Communication For CSU - three courses required, one course from each area (1A, 1B and 1C) For UC - two courses required, one from Areas 1A and one from 1B							
Area 1A: ENGWR	English Composition (one course required): 300, 480			one			
Area 1B: COMM ENGWR SOC	Critical Thinking - English Composition (one course required) 316 302 305			one			
Area 1C: COMM	Oral Communication - CSU ONLY (one course required) 301, 311, 331, 361			one			
Area 2 - Mathematical Concepts and Quantitative Reasoning (one course required)							
CISP ECON MATH STAT	440 310, 482 300, 340, 350, 351, 370, 400, 401, 402, 410, 420 300, 480			one			
Area 3 - Arts and Humanities (9 units required) Three courses with at least one from the Arts and one from the Humanities.							
Area 3A: ARTH ENGLT MUFHL TA	Arts: 300, 302, 304, 306, 308, 310, 312, 320, 324, 328, 330, 332 400 305, 309, 310, 311, 315, 320, 331, 400, 481, 482 300, 302, 303, 308, 310, 312, 320			one			
Area 3B: ANTH ENGLT ENGWR CANT FREN GERM	Humanities: 330+ 303, 304, 310, 311, 320, 321, 325, 331, 332, 334, 335, 345, 346, 360, 380, 392, 401, 480, 481, 494 301 **Foreign Languages:** 411, 412 411 411	HIST HUM PHIL TA JAPAN MAND SPAN	300, 302, 305, 364, 365, 373, 480 300, 310, 332, 350, 352, 480, 483 300, 302, 310, 317, 330, 331, 338, 352, 353, 368, 480, 481, 482 318 411, 412 411, 412 411, 412	one			

AREA		MIN. COURSES	COMPLETED	IN PROGRESS	NEED
Area 3C: A course may be chosen from either Area 3A - Arts or from Area 3B - Humanities to make a total of 9 units for Area 3		one			
Area 4 - Social and Behavioral Sciences (9 units required) - Three courses from at least two disciplines. NOTE: * Indicates that this course may not be used for AREA 4 if the course is used for CSU U.S. History, Constitution, and American Ideals requirement.					
ANTH	310, 315, 320, 330+, 332, 334, 481	one			
BIOL	323				
BUS	345				
COMM	321, 325, 328, 351, 363				
ECON	302, 304, 480	one			
ENGWR	384				
FCS	312, 314, 320, 324, 326, 330				
GEOG	310, 312, 320, 322, 480				
GERON	300	one			
HIST	307, 308, 309, 310*, 311*, 314*, 317*, 320*, 321*, 344, 346, 370*, 371*, 483*, 484*, 485*				
JOUR	310, 320				
POLS	301*, 302, 310, 320, 322, 340, 480				
PSYC	300, 320, 340, 350, 356, 360, 363, 367, 370, 376, 390				
SOCSC	320, 325, 330, 332, 335, 336, 350, 360				
SOC	300, 301, 310, 312, 321, 335, 341, 480				
Area 5 - Physical and Biological Sciences (7-9 units required) One Physical Science course and one Biological Science course; at least one course must include a laboratory. Courses with a (L) contain a laboratory.					
Area 5A:	Physical Science:	one or one with lab			
ASTR	310, 320, 330, 400(L)				
CHEM	300(L), 305(L), 306(L), 320(L), 330, 331(L), 336(L), 400(L), 401(L), 410(L), 420(L), 421(L), 425(L), 426(L)				
GEOG	300, 301(L)				
GEOL	302(L), 305, 306(L), 308, 310, 311(L), 345				
PHYS	310, 350(L), 360(L), 410(L), 420(L), 430(L)				
Area 5B:	Biological Science:	one or one with lab			
ANTH	300, 301(L), 480				
BIOL	305(L), 308, 309(L), 342, 350, 402(L), 412(L), 422(L), 430(L), 431(L), 440(L), 464				
PSYC	310, 315				
AREA 6 (UC REQUIREMENT ONLY) Language Other Than English Completion of a college level foreign language course: CANT 401, MAND 401, FARSI 401, FREN 401, GERM 401, JAPAN 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		one or meets one of the other req.			
(NOT PART OF IGETC) **CSU Graduation Requirement in U.S. History, Constitution, and American Ideals, may be completed prior to transfer** Six units required, choose one two-course combination from section 1 or 2 or 3: 1. POLS 301 PLUS HIST 310, 311, 314, 317, 320, 321, 370, 371, 483, 484, 485 or 2. HIST 320 PLUS HIST 311, 314, 321, 484, 485 or 3. HIST 310 or 483 PLUS HIST 311, 314, 321, 484, 485		6 units			

Course Numbering System

Sacramento City College has adopted a new 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.
300-499	Courses numbered 300 through 499 are articulated for transfer with four-year institutions and are intended to meet major, general education or elective credit requirements.

Transfer Credit

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

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

Transferable Courses

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

California Articulation Number System

California Articulation

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

CAN courses are identified in each college's catalog that participate in the CAN system. College catalogs are available in the Transfer Center. The system assures students that CAN courses on one participating campus will be accepted as a comparable CAN course on another participating campus. Example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on another participating campus. Each campus also retains its own numbering system.

Transferable Courses

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

Course Number	Sacramento City College
CAN AJ 2	ADMJ 300
CAN AJ 4	ADMJ 320
CAN AJ 6	ADMJ 323
CAN AJ 8	ADMJ 330
CAN ANTH 2	ANTH 300
CAN ANTH 4	ANTH 310
CAN ANTH 6	ANTH 320
CAN ART 2	ARTH 304 & 306
CAN ART 4	ARTH 308
CAN ART 6	ART 390
CAN ART 8	ART 300
CAN ART 10	ART 332 or 334
CAN ART 12	ART 400
CAN ART 14	ART 320
CAN ART 16	ART 370
CAN ART 18	PHOTO 301
CAN ART 20	ART 368
CAN ART 24	ART 304
CAN ART 26	ART 380
CAN ART SEQ A	ART 304 & 306 & 308
CAN BIOL 2	BIOL 402
CAN BIOL 4	BIOL 422
CAN BIOL 6	BIOL 412
CAN BIOL 10	BIOL 430
CAN BIOL 12	BIOL 431
CAN BIOL 14	BIOL 440
CAN BIOL SEQ A	BIOL 402 & 422 & 412
CAN BIOL SEQ B	BIOL 430 & 431
CAN BUS 2	ACCT 301
CAN BUS 4	ACCT 311
CAN BUS 8	BUS 340
CAN BUS SEQ A	ACCT 301 & 311
CAN CHEM 2	CHEM 400
CAN CHEM 4	CHEM 401
CAN CHEM 6	CHEM 305
CAN CHEM 8	CHEM 306
CAN CHEM 12	CHEM 410
CAN CHEM SEQ A	CHEM 400 & 401
CAN CHEM SEQ B	CHEM 305 & 306
CAN CHIN 2	MAND 401
CAN CHIN 4	MAND 402
CAN CHIN 8	MAND 411
CAN CHIN 10	MAND 412
CAN CHIN SEQ A	MAND 401 & 402
CAN CHIN SEQ B	MAND 411 & 412
CAN CSCI 4	CISP 342
CAN CSCI 6	CISP 370
CAN CSCI 8	CISP 320
CAN CSCI 10	CISP 318
CAN CSCI 12	CISP 365
CAN CSCI 16	CISP 360
CAN CSCI 18	CISP 400
CAN CSCI 24	CISP 430
CAN DRAM 6	COMM 371
CAN DRAM 8	TA 350
CAN DRAM 10	TA 422
CAN DRAM 12	TA 420
CAN DRAM 14	TA 437
CAN DRAM 18	TA 300

Course Number	Sacramento City College
CAN DRAM 20	TA 370
CAN DRAM 22	TA 351
CAN ECON 2	ECON 302
CAN ECON 4	ECON 304
CAN ENGL 2	ENGWR 300
CAN ENGL 4	ENGWR 301
CAN ENGL 6	ENGCW 400
CAN ENGL 8	ENGLT 310
CAN ENGL 10	ENGLT 311
CAN ENGL 14	ENGLT 320
CAN ENGL 16	ENGLT 321
CAN ENGL 18	ENGLT 303
CAN ENGL SEQ A	ENGWR 300 & 301
CAN ENGL SEQ B	ENGLT 310 & 311
CAN ENGL SEQ C	ENLT 320 & 321
CAN ENGR 2	ENGR 312
CAN ENGR 4	ENGR 412
CAN ENGR 8	ENGR 422
CAN ENGR 10	ENGR 310
CAN ENGR 12	ENGR 400
CAN FCS 2	FCS 340
CAN FCS 6	FASHN 320
CAN FCS 8	FCS 344
CAN FCS 10	FCS 351
CAN FCS 12	FCS 320
CAN FCS 14	FCS 312
CAN FCS 18	IDES 300
CAN FCS 20	FASHN 310
CAN FREN 2	FREN 401
CAN FREN 4	FREN 402
CAN FREN 8	FREN 411
CAN FREN 10	FREN 412
CAN FREN SEQ A	FREN 401 & 402
CAN FREN SEQ B	FREN 411 & 412
CAN GEOG 2	GEOG 300
CAN GEOG 4	GEOG 310
CAN GEOL 2	GEOL 302
CAN GEOL 4	GEOL 310 & 311
CAN GEOL 8	GEOL 310
CAN GERM 2	GERM 401
CAN GERM 4	GERM 402
CAN GERM 8	GERM 411
CAN GERM 10	GERM 412
CAN GERM SEQ A	GERM 401 & 402
CAN GERM SEQ B	GERM 411 & 412
CAN GOVT 2	POLS 301
CAN HIST 2	HIST 300
CAN HIST 4	HIST 302
CAN HIST 8	HIST 310
CAN HIST 10	HIST 311
CAN HIST 14	HIST 307
CAN HIST SEQ A	HIST 300 & 302
CAN HIST SEQ B	HIST 310 & 311
CAN JAPN 2	JAPAN 401
CAN JAPN 4	JAPAN 402
CAN JAPN 8	JAPAN 411
CAN JAPN 10	JAPAN 412
CAN JAPN SEQ A	JAPAN 401 & 402
CAN JAPN SEQ B	JAPAN 411 & 412
CAN JOUR 2	JOUR 300
CAN JOUR 4	ENGWR 384
CAN MATH 2	MATH 310
CAN MATH 8	MATH 334
CAN MATH 16	MATH 370
CAN MATH 18	MATH 400
CAN MATH 20	MATH 401
CAN MATH 22	MATH 402
CAN MATH 24	MATH 420
CAN MATH 26	MATH 410
CAN MATH 30	MATH 350
CAN MATH 32	MATH 351
CAN MATH 34	MATH 340
CAN MATH SEQ B	MATH 400 & 401
CAN MATH SEQ C	MATH 400 & 401 & 402
CAN MATH SEQ D	MATH 350 & 351
CAN MUS 2	MUFHL 400
CAN MUS 4	MUFHL 401
CAN MUS 8	MUFHL 310
CAN MUS 10	MUFHL 311
CAN MUS 22	MUIVI 345
CAN MUS 24	MUIVI 346
CAN MUS SEQ A	MUFHL 400 & 401
CAN MUS SEQ B	MUFHL 310 & 311
CAN PHIL 2	PHIL 300
CAN PHIL 4	PHIL 310
CAN PHIL 6	PHIL 320
CAN PHIL 8	PHIL 330
CAN PHIL 10	PHIL 331
CAN PHIL SEQ A	PHIL 330 & 331
CAN PHYS 2	PHYS 350
CAN PHYS 4	PHYS 360
CAN PHYS 8	PHYS 410
CAN PHYS 12	PHYS 420
CAN PHYS 14	PHYS 430
CAN PHYS SEQ A	PHYS 350 & 360
CAN PHYS SEQ B	PHYS 410 & 420 & 430
CAN PSY 2	PSYC 300
CAN PSY 8	PSYC 335
CAN PSY 10	PSYC 310
CAN REC 2	RECR 300
CAN RUSS 2	RUSS 401
CAN RUSS 4	RUSS 402
CAN RUSS SEQ A	RUSS 401 & 402
CAN SOC 2	SOC 300
CAN SOC 4	SOC 301
CAN SPAN 2	SPAN 401
CAN SPAN 4	SPAN 402
CAN SPAN 8	SPAN 411
CAN SPAN 10	SPAN 412
CAN SPAN SEQ A	SPAN 401 & 402
CAN SPAN SEQ B	SPAN 411 & 412
CAN SPCH 4	COMM 301
CAN SPCH 6	COMM 311
CAN SPCH 8	COMM 321
CAN SPCH 10	COMM 331
CAN STAT 2	STAT 300

Majors, Degrees, and Certificates

Associate Degree

The Associate Degree maybe obtained by the completion of all required courses for a major (from 18 to approximately 30 plus units), fulfill general education requirements, and sufficient electives to meet a minimum total of 60 units.

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

Sacramento City College offers the following majors for the degree:

Accounting

Administration of Justice
- Administration of Justice
- Correctional Services
- Police Services
- Private Security Services Management

Advanced Transportation Technology
- Aeronautics:
  - Aircraft Structure Manufacture and Repair
  - Airframe
  - Powerplant
  - Combined Airframe and Powerplant
- Flight Technology
- Railroad Operations - Conductor/Engineer
- Recreational Vehicle Service Technician

Anthropology

Art

Biology

Business
- Business, General
- Business, Transfer
- Bookkeeping and Office Management
- Management
  - Business - Management
  - Small Business Management
- Marketing
  - Marketing, Advertising
  - Marketing, General
- Office Administration
  - Capstone Office Simulation with an Internship Career Certificate - Level C
- Real Estate

Chemistry

Communication (Formerly Speech Communication)

Community Studies Program (emphasis on Direct Services)

Computer Information Science
- Computer Information Science
- Information Processing
- Information Systems Security
- Management Information Science
- Microcomputer Technician (also listed under Electronics Technology)
- Network Administration
- Network Design

Cosmetology

Dental Assisting

Dental Hygiene

Early Childhood Education
- Early Childhood
- Infant Care
- Master Teacher*
- School Age Child Care
- Site Supervisor

Electronics Technology
- Automated Systems Technician
- Electronics Facilities Maintenance Technician
- Microcomputer Technician (also listed under Computer Information Science)
- Telecommunications Technician

Engineering Design Technology
- Architectural/Structural Drafting
- Electric (Power-Lighting Systems)
- Engineering Design Technology
- HVAC Systems Design
- Mechanical (HVAC/Plumbing Systems)

English

Ethnic Studies
- African-American Emphasis
- Mexican-American Emphasis
- Asian-American Emphasis
- Native-American Emphasis

Family and Consumer Science
- Custom Apparel Construction and Alterations
- Family and Consumer Science
- Fashion Design and Production*
- Interior Design Sewing*

Fine Arts

General Education, Transfer

General Studies, Non-Transfer

Gerontology

Graphic Communication

History

Humanities

Industrial Technology

Instructional Assisting
- Bilingual/Bicultural
- Instructional Assisting, General
- Special Education

International Studies*

Journalism

Liberal Studies

Liberal Studies for Elementary Teachers

Library and Information Technology

Mathematics

Mechanical-Electrical Technology
- Mechanical-Electrical Technology
- Vending and Automatic Merchandising
- Wastewater Treatment Plant Operation

Metals Industry Technology
- Metals Fabrication

Motorcycle Maintenance Technician

Music
- Music, General
- Commercial Music
  - Audio Production Emphasis
  - Music Business Management Emphasis
  - Performance Emphasis
  - Songwriting/Arranging Emphasis

Nursing
- Associate Degree Nursing
- Licensed Vocational Nursing

Occupational Therapy Assistant

Photography

Physical Education
- Athletic Training, Transfer
- Physical Education
- Physical Education, Transfer

Physical Therapist Assistant

Psychology*

Science

Social Sciences

Sociology

Theatre Arts
- Acting-Directing Emphasis
- Technical Production Emphasis

Women's Studies

Career Certificates

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

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

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

Currently, the Career Certificate may be earned in the following areas:

Administration of Justice
- Correctional Services
- Police Services
- Private Security Services Management

Advanced Transportation Technology
- Aeronautics:
  - Aircraft Structure Manufacture and Repair
  - Airframe
  - Powerplant
  - Combined Airframe and Powerplant
  - Flight Technology
  - Nondestructive Testing Technician
- Electric Vehicle Technology
- Railroad Operations - Conductor/Engineer
- Recreational Vehicle Technician

Biology, Field Ecology

Business
- Accounting
- Bookkeeping and Office Management
- Business - Bookkeeping
  - Junior Entry-Level*
  - Senior Entry-Level*
- Business - Management
- Small Business Management
- Retail Management*
- Management
- Marketing*
- Office Administration
  - Clerical General Office Certificate - Level A
  - Introduction to Computerized Office Technologies - Level B*
  - Business Operations and Management Technology Certificate - Level C
  - Capstone Office Simulation with an Internship Career Certificate - Level D
- Real Estate

Community Studies Program (Emphasis on Direct Services)

Computer Information Science
- Computer Information Science
- Database
- Information Processing Specialist
- Management Information Science
- Microcomputer Technician (also listed under Electronics Technology)
- Network Administration
- Network Design
- PC Support
- Programming
- Software Application
- Web Programming*
- Web Publishing
- Information Systems Security

Cosmetology

Dental Assisting

Early Childhood Education
- Early Childhood
- Infant Care
- Master Teacher*
- Teacher Certification
- Site Supervisor
- School Age Child Care
- School Age Child Development Career Certificate Program: School Age Teacher*
- School Age Child Development Career Certificate Program: School Age Master Teacher*
- School Age Child Development Career Certificate Program: School Age Site Supervisor*

Electronics Technology
- Automated Systems Technician
- Electronics Facilities Maintenance Technician
- Electronics Mechanic
- Microcomputer Technician (also listed under Computer Information Science)
- Telecommunications Technician

Engineering Design Technology
- Architectural/Structural Drafting
- Electric (Power-Lighting Systems)
- Engineering Design Technician
- HVAC Systems Design
- Mechanical (HVAC/Plumbing Systems)
- Surveying (Geomatics)

Family and Consumer Science
- Custom Apparel Construction and Alterations
- Fashion Design and Production
- Interior Design Sewing

Gerontology

Graphic Communication

Instructional Assisting
- Bilingual/Bicultural
- Instructional Assisting, General
- Special Education

Journalism
- Publications Specialist

Library and Information Technology

Mechanical-Electrical Technology
- Machinery Systems Technician
- Mechanical-Electrical Technology
- Vending and Automatic Merchandising
- Wastewater Treatment Plant Operation

Metals Industry Technology
- Metals Fabrication

Motorcycle Maintenance Technician

Music
- Commercial Music
- Audio Production Emphasis
- Music Business Management Emphasis
- Performance Emphasis
- Songwriting/Arranging Emphasis

Nursing
- Licensed Vocational Nursing

Photography
- Commercial Photography
- Digital Photography
- Fine Art Photography
- Photo-Journalism
- Portrait and Wedding Photography

Certificates of Completion

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

Level 1, 3-6 units

Level 2, 7-11 units

Level 3, 12-17.5 units.

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

Currently, the Certificate of Completion may be earned in the following areas:

Communication (Formerly Speech Communication)

Computer Information Science

• Advanced CISCO Networking	
• Database A	Level 2
• Database B	Level 2
• Information Processing Technician	Level 3
• Word Processing Technician	Level 2 and/or 3

Cosmetology

• Art and Science of Nail Technology	Level 3

Early Childhood Education

• Associate Teacher	Level 3
• Family Child Care	Level 3
• School Age Child Development Program: School Age Assistant Teacher	Level 2
• School Age Child Development Program: School Age Associate Teacher	Level 3

Family and Consumer Science

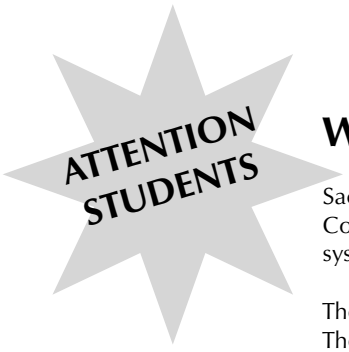
• Fashion Sales	Level 2
• Production Sewing	Level 3

Graphic Communication

• Digital Illustration	Level 1
• Graphic Design Production	Level 3
• Image Editing	Level 1
• Internet/Web Technology	Level 1 and/or 2
• Page Layout	Level 2
• Pre-Press	Level 2
• Web Design	Level 1 and/or 2

Photography Level 3

Programs of Study and Course Descriptions



WE'VE GOT YOUR NUMBER!

Sacramento City College and the Los Rios Community College District converted to a new Course Numbering system last year.

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

Accounting ACCT

Associate in Science Degree

Career Certificate

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

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

Required Program

Business Core:	**Units**
ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4
BUS 106, Business Mathematics, OR ECON 310, Economic Statistics	3
BUS 300, Introduction to Business	3
BUSTEC 300, Beginning Keyboarding / Applications (module 2)	1
CISC 300, Computer Familiarization	1
Total Core Units	**11-12**

Select any nine (9) units from the following:

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

Concentration Requirements:

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

Plus any six (6) units from the following:

ACCT 107, Auditing Theory	3
ACCT 111, Cost Accounting	3
ACCT 151, Governmental Auditing	3
ACCT 153, Governmental Accounting	3
Total Concentration Units	**25**

Total Units Required	**45-46**

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

Suggested Electives
ACCT 126, ACCT 299, CISC 320.

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

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

Accounting (ACCT)

ACCT 101 Fundamentals of Accounting and Recordkeeping 3 Units

Formerly: ACCT 60

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

ACCT 103 Intermediate Accounting- Part I 3 Units

Formerly: ACCT 91A

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

ACCT 104 Intermediate Accounting - Part II 3 Units

Formerly: ACCT 91B

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

ACCT 107 Auditing Theory 3 Units

Formerly: ACCT 93

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

ACCT 111 Cost Accounting 3 Units

Formerly: ACCT 92

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

ACCT 121 Payroll Accounting 3 Units

Formerly: ACCT 70

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

ACCT 126 Individual Income Taxation 4 Units

Formerly: ACCT 77

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

ACCT 151 Governmental Auditing 3 Units

Formerly: ACCT 94

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

ACCT 153 Governmental Accounting 3 Units

Formerly: ACCT 95

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

ACCT 301 Financial Accounting 4 Units

Formerly: ACCT 1A

Prerequisite: None
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This course is a study of accounting as an information system. Emphasis is on the principles (rules) underlying the content of financial reports and related disclosures, for distribution to stockholders, creditors and other interested parties. Also emphasized is the interpretation of financial statements. This course is required of all business majors, minors, and accounting certificate candidates. (BUS SEQ A Sum of CAN Bus 2 and Bus 4)

ACCT 311 Managerial Accounting 4 Units

Formerly: ACCT 1B

Prerequisite: ACCT 301 with a grade of "C" or better.
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This is the study of accounting information needed by decision makers of all types and sizes of organizations (service, retail, manufacturing, and not-for-profit; small businesses to large corporations). Emphasis is placed upon the analysis of quantitative information needed for short and long-term planning, day to-day operations, and reviewing of operations and personnel. This course is required of all business majors, minors, and accounting certificate candidates. (BUS SEQ A Sum of CAN Bus 2 and Bus 4)

ACCT 341 Accounting on the Microcomputer 2 Units

Formerly: ACCT 5

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

Administration of Justice ADM J

Associate in Arts Degree

Associate in Science Degree

Career Certificate

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

Career Opportunities

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

Recommended High School Preparation: General college preparatory courses.

Information: The general field referred to as "Administration of Justice" is directed toward the prevention, discovery, control and treatment of crimes, criminals and criminality. Students desiring to enter a career concerned with the administration of justice will find that this curriculum has flexibility that allows them to prepare for specific fields included in that broad category.

The program also provides the basis for advanced study at a four-year college. Opportunities for college graduates include positions as federal and state parole officers, probation officers, and correctional administrators. American River College's Public Safety Center courses may be used for elective credit.

The following core courses are required for students in all options:

Core Program	**Units**
ADMJ 300, Introduction to Administration of Justice	3
ADMJ 320, Concepts of Criminal Law	3
ADMJ 322, Criminal Procedure	3
ADMJ 301, Applied Reporting Techniques for Criminal Justice.	3
ADMJ 323, Legal Aspects of Evidence	3
ADMJ 302, Community Relations	3
ADMJ 340, Introduction to Correctional Services.	3
ADMJ 330, Criminal Investigations	3
ADMJ 304, Juvenile Delinquency	3
Total Units Required	**27**

Associate in Arts Degree (A.A.)

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

Correctional Services

Associate in Science Degree
Career Certificate

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

Required Program	Units
ADMJ 303, Substance Abuse: Effects on Body and Behavior	3
ADMJ 346, Probation and Parole	3
ADMJ 347, Correctional Counseling and Interviewing	3
CORE	27
Total Units Required	**36**

Suggested Electives
ADMJ 322, 494, 498; PSTC 1137, 1138, 1139 (available at American River College).

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

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

Police Services

Associate in Science Degree
Career Certificate

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

Required Program	Units
ADMJ 302, Community Relations	3
ADMJ 331, Patrol Procedures	3
ADMJ 303, Substance Abuse: Effects on Body and Behavior	3
CORE	27
Total Units Required	**36**

Suggested Electives
ADMJ 498, PSTC 1200 Basic Police Academy (at American River College).

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

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

Private Security Services Management

Associate in Science Degree
Career Certificate

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

Required Program	Units
ADMJ 360, Security Services	3
ADMJ 361, Retail and Industrial Security	3
ADMJ 366, Private Investigations	3
CORE	27
Total Units Required	**36**

Suggested Electives
ADMJ 303, 498.

The following course from the American River College's Public Safety Center is highly recommended:

PSTC 1121 - P 832 Arrest, Search, and Seisure (2)

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

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

Administration of Justice Courses (ADMJ)

ADMJ 300 Introduction to Administration of Justice — 3 Units

Formerly: ADMJ 1

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the history and philosophy of justice as it evolved through the study of American and English systems. Also provided is an in-depth study of the American system and the various sub-systems; roles and role expectations of criminal justice agents in their interrelationships in society; concepts of crime causation, punishments and community relations; and coverage of ethics, education and training for professionalism in the justice system.

ADMJ 301 Applied Reporting Techniques for Criminal Justice — 3 Units

Formerly: ADMJ 5

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

ADMJ 302 Community Relations: Multicultural Issues — 3 Units

Formerly: ADMJ 7

Prerequisite: None
Advisory: Eligibility for ENGRD 310 and ENGWR 100.
General Education: AA/AS Area F.
Acceptable for credit: CSU
54 hours Lecture
This course provides a survey of the multicultural problems currently facing 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.

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

Formerly: ADMJ 85

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed for anyone who is interested in the effects illegal drugs, prescription drugs, over the counter drugs, vitamins, health foods, coffee, and nicotine have on people physically, emotionally, mentally, and financially. This course is especially recommended for people who are seeking or working in careers in health, law enforcement, counseling, psychology, business, social services, or teaching. (Credit for Administration of Justice 303 or Psychology 405, but not both.)

ADMJ 303.1 Substance Abuse: Effects on Body and Behavior Overview (Same as PSYC 405.1) — .5 Unit

Formerly: ADMJ 85A

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

ADMJ 303.2 Substance Abuse: The Action of Drugs (Same as PSYC 405.2) — .5 Unit

Formerly: ADMJ 85B

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series is for students who are interested in the physiological action of a variety of drugs, including stimulants. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.3 Substance Abuse: Sedatives and Hypnotics (Same as PSYC 405.3) — .5 Unit

Formerly: ADMJ 85C

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will explore the effects and treatment of sedatives, hypnotics, and alcohol. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.4 Substance Abuse: Over the Counter and Psychotherapeutic Drugs (Same as PSYC 405.4) .5 Unit

Formerly: ADMJ 85D

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will specifically examine the effects and treatments for over-the-counter and psychotherapeutic drugs. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.5 Substance Abuse: Narcotics and Hallucinogens (Same as PSYC 405.5) .5 Unit

Formerly: ADMJ 85E

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will provide an understanding of the effects and treatment of narcotics. Other topics will include hallucinogens, marijuana, and hashish. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 303.6 Substance Abuse: Drug Use as a Social Problem (Same as PSYC 405.6) .5 Unit

Formerly: ADMJ 85F

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
9 hours Lecture
This module in the Substance Abuse series will explore drug use as it relates to law, education, and treatment modalities. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

ADMJ 304 Juvenile Delinquency 3 Units

Formerly: ADMJ 86

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides a study of juveniles and how they affect and are affected by the current juvenile justice system with an overview of adolescent problems and current approaches being utilized to confront these problems. The causes and treatment of delinquency and child abuse will be reviewed, and an overview of juvenile procedures at both the county and state levels will be explored.

ADMJ 320 Concepts of Criminal Law 3 Units

Formerly: ADMJ 2

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310; ADMJ 300 or 340 or equivalent.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the philosophy and structures of criminal law. Emphasis will be given to specific crimes, related law and codes, annotations to codes and case studies.

ADMJ 321 Substantive Criminal Law 3 Units

Formerly: ADMJ 3

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

ADMJ 322 Criminal Procedure 3 Units

Formerly: ADMJ 4

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310; ADMJ 300 or 340 or equivalent.
Acceptable for credit: CSU
54 hours Lecture
This course will study the justice system. Topics will include bail, extradition and rendition; order of trial, motions, writs and appeals; limitations of prosecution; rights of defendant; judgment and sentence.

ADMJ 323 Legal Aspects of Evidence 3 Units

Formerly: ADMJ 6

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will survey the rules of evidence and the various kinds of evidence. Topics include search and seizure concepts, exclusionary rule, the kinds and degrees of evidence, considerations governing admissibility of evidence in courts; rules of evidence, and case studies.

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

Formerly: ADMJ 70

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

ADMJ 330 Criminal Investigation 3 Units

Formerly: ADMJ 80

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will explore the fundamentals involved in the investigation of crimes. The techniques to collect and preserve evidence, interrogation of suspects and the interviewing of witnesses will be introduced and developed to assist in understanding the crime scene investigation.

ADMJ 331 Patrol Procedures 3 Units

Formerly: ADMJ 8

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

ADMJ 340 Introduction to Correctional Services 3 Units

Formerly: ADMJ 52

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

ADMJ 341 Control and Supervision in Corrections 3 Units

Formerly: ADMJ 53

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

ADMJ 342 Gangs and Corrections 3 Units

Formerly: ADMJ 54

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

ADMJ 343 Supervision in Corrections 3 Units

Formerly: ADMJ 55

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

ADMJ 344 Leadership Development in Corrections 3 Units

Formerly: ADMJ 56

Prerequisite: None
Advisory: Completion of ADMJ 340
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to leadership theory and practice in the correctional system. Although most of the leadership examples to be discussed deal directly with the correctional environment, others related generally to government and business will also be introduced. The course will emphasize leadership skills and experiences beneficial to a first-line supervisor. This course is intended for an individual with background (either educational or experiential) in corrections at the local, state or federal level.

ADMJ 345 Legal Aspects of Corrections 3 Units

Formerly: ADMJ 64

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

ADMJ 346 Probation and Parole 3 Units
Formerly: ADMJ 87

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

ADMJ 347 Correctional Counseling and Interviewing 3 Units
Formerly: ADMJ 88

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

ADMJ 360 Security Services 3 Units
Formerly: ADMJ 66

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

ADMJ 361 Retail and Industrial Security 3 Units
Formerly: ADMJ 67

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

ADMJ 366 Private Investigations 3 Units
Formerly: ADMJ 68

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

ADMJ 494 Topics in Administration of Justice .5-4 Units
Formerly: ADMJ 91

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

ADMJ 498 Work Experience in Administration of Justice 1-4 Units
Formerly: ADMJ 98

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
18 hours lecture, 75 hours of supervised paid work experience or 60 hours of volunteer work experience for one unit. Additional hours may be earned at the rate of 75 hours of paid work or 60 hours of volunteer work per unit to a maximum of four (4) units per semester. Techniques of law enforcement and correctional services through practical on-the-job experience. Placement in nonpaying jobs with justice agencies will be arranged by the instructor.

Advanced Transportation Technology

Associate in Science Degree

Career Certificate

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Aeronautics

Airframe, Degree and Career Certificate

Powerplant, Degree and Career Certificate

Combined Airframe and Powerplant, Degree and Career Certificate

Aircraft Structure Manufacture and Repair, Degree and Career Certificate

Flight Technology, Degree and Career Certificate

Electric Vehicle Technology, Career Certificate

Motorcycle Maintenance, Degree and Career Certificate (see alpha listing of courses under Motorcycle Maintenance)

Nondestructive Testing Technician, Career Certificate

Railroad Operations - Conductor/Engineer, Degree and Career Certificate

Recreational Vehicle Technology, Degree and Career Certificate

Career Opportunities

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

Aeronautics AERO

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

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

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

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

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

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

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

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

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

Aeronautics Core Program

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

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

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

Airframe

Associate in Science Degree
Career Certificate

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

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

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

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

Powerplant

Associate in Science Degree
Career Certificate

Designed for students pursuing FAA Certification as a Powerplant Maintenance Technician

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

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

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

Combined Airframe and Powerplant

Associate in Science Degree
Career Certificate

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

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

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

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

Aircraft Structure Manufacture and Repair

Associate in Science Degree
Career Certificate

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

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

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

Suggested Courses
AERO 370, 120.

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

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

Flight Technology

Associate in Science Degree
Career Certificate

Designed for students pursuing a career as a Commercial Pilot.

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

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

Required Program	**Units**
AERO 310, Powerplant Theory	5
AERO 320, Airframe Systems	5
AERO 120, Private Pilot Ground School	3
AERO 121, Instrument Pilot Ground School	3
Electives	3
Total Units Required	**19**

Select three (3) units from the following:

AERO 370, Introduction to Aviation	3
AERO 311, Powerplant Maintenance Applications	3
AERO 322, Airframe Systems	3
AERO 494, Topics in Aeronautics	3
AERO 122, Commercial Pilot Ground School	3
AERO 299, Special Studies	1-3

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

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

Electric Vehicle Technology

Career Certificate

Designed for students pursuing a career in the new and upcoming field of Electric Vehicle and Fuel Cell Technology.

Career Opportunities: This technological field is used in a variety of areas using clean fuel cell and electric vehicles. Some specific areas are: governmental agencies, airports, transit authorities, industrial companies, automobile manufacturers, and personnel use.

Preparation: High School courses in English, mathematics, electronics, mechanics, and computers are encouraged.

Required Program	**Units**
EVT 100, Introduction to Electric Vehicle	3
EVT 110, Introduction to Electric Vehicle Conversions	4
EVT 130, Introduction to Electric Vehicle Batteries	3
Electives	8
Total Units Required	**18**

Select eight (8) units from the following courses:
EVT 111, 120, 131, 140, 141; ET 300, 301, 305, 310, 311, 315, 320, 330, 340, 350, 390, 400, 410; AERO 300, 301, 302, 303, 320, 321, 322, 323; AMT 300, 301, 302, 304, 312, 314, 316, 326, 330, 332 at ARC and/or CRC.

Automotive Mechanics Technology courses are offered at Cosumnes River College and American River College only. There is no automotive program at Sacramento City College.

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

The Electric Vehicle Technology Certificate Program is not part of an automotive program.

Nondestructive Testing Technician

Career Certificate

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

Required Program	Units
AERO 360, Nondestructive Testing I	2
AERO 361, Nondestructive Testing II	2
AERO 362, Nondestructive Testing III	2
TECH 103, Technical Communication	3
Electives	9
Total Units Required	**18**

Select nine (9) units from the following courses:
AERO 310, 311; MIT 310, 322, 326, 340, 342; TECH 100, 300.

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

Railroad Operations - Conductor/ Engineer

Associate in Science
Career Certificate

Designed for students pursuing a career as a Railroad Conductor or Engineer.

Career Opportunities: Sacramento City College's Career Certificate program in Railroad Operations prepares students for an exciting and well-paying career. The more than 500 companies that make up the United States railroad industry provide the country's freight and passenger transportation service on a network of some 300,000 route-miles of track. Railroads employ a substantial work force to service, maintain, and manage this extensive transportation network.

Railroad Operations is an 18 unit, six-course program. The curriculum is approved by the National Academy of Railroad Sciences. In addition to normal student expenses, the Railroad Operations program requires an additional expenditure of approximately $350.00 for protective clothing, work boots, and safety equipment. Contact the Financial Aid Office for possible assistance before entering the program.

Recommended High School Preparation: Courses in English, mathematics, physics, electronics, mechanics and computers are recommended.

Required Program	Units
RAILR 100, History of Railroading	3
RAILR 102, Railroad Technical Careers	3
RAILR 120, Railroad Operations	3
RAILR 122, Railroad Safety, Quality and Environment	3
RAILR 140, General Code of Operating Rules	3
RAILR 142, Ground School	3
Total Units Required	**18**

Suggested Electives
RAILR 144, CISC 300.

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

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

Recreational Vehicle Technology

Associate in Science Degree
Career Certificate

This course of study is designed to provide entry level employment training certified by the Recreational Vehicle Technical Institute (RVTI).

Occupational Description: A Recreational Vehicle Service Technician services all RV Systems; repairs problems through diagnosis and evaluation; performs general maintenance on appliances, chassis and body; installs accessories and repairs structural damage while maintaining high safety standards and practicing good customer relations.

Career Opportunities: Pre-delivery Inspector, Service Technician, Service Writer, Service Coordinator, Parts Counter Person, Service Manager, Factory Field Technician, Factory Service Representative.

Gain Knowledge & Hands-on Experience in the following areas: troubleshooting, appliance repair, AC/DC electrical systems service, preventive chassis maintenance, l.p. gas systems service, water systems service, refrigeration service, water heater service, air conditioning service, heating systems service, body repair, cabinetry repair, small gasoline engine generator service, customer relations.

Recommended High School Preparation: Courses in English, mathematics, physics, electronics, mechanics and computers are recommended.

Job Security: Nine million recreational vehicles are used by American families in the quest of travel and leisure time activities. More than 350,000 new vehicles are being added to the fleet each year. Newly trained RV service technicians are in tremendous demand.

Students may take advantage of national placement assistance, nationwide demand for graduates, stability and job security, and opportunities for growth.

Required Program	Units
RVT 200, Introduction to Recreational Vehicle Service and Basic Electricity	5
RVT 201, RV Systems I	3
RVT 202, RV Systems II	3
RVT 203, RV Systems III	2
RVT 204, RV Systems IV	5
RVT 205, RV Systems V	3
RVT 206, RV Systems VI	3
RVT 207, RV Systems VII	2
Total Units Required	**26**

Suggested Electives

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.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent as determined by the Recreational Vehicle department.

Aeronautics (AERO)

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

AERO 100 Basic Aircraft Sheetmetal Theory 5 Units
Formerly: AERO 56

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

AERO 101 Basic Applied Aircraft Sheetmetal Lab 1.5 Units
Formerly: AERO 57

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

AERO 102 Advanced Aircraft Sheetmetal Theory 5 Units
Formerly: AERO 58

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

AERO 103 Advanced Applied Aircraft Sheetmetal Lab 1.5 Units
Formerly: AERO 59

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

AERO 110 Basic Aircraft Structure Theory 5 Units

Formerly: AERO 66

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

AERO 111 Basic Applied Aircraft Structure Lab 1.5 Units

Formerly: AERO 67

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

AERO 112 Advanced Aircraft Structure Theory 5 Units

Formerly: AERO 68

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

AERO 113 Advanced Applied Aircraft Structure Lab 1.5 Units

Formerly: AERO 69

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

AERO 120 Private Pilot/Basic Ground Instructor School 3 Units

Formerly: AERO 87

Prerequisite: None
54 hours Lecture
This course is an introduction to the basic principles of aviation, meteorology, navigation, rapid communication, weight and balance, instruments, performance, theory of light and regulations. This course meets the Federal Aviation Administration requirement for private pilot and/or basic ground instructor written tests.

AERO 121 Instrument Pilot/Instructor Ground School 3 Units

Formerly: AERO 88

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

AERO 122 Commercial Pilot Ground School 3 Units

Formerly: AERO 89

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

AERO 200 Certificated Aircraft Mechanic Preparation 1-3 Units

Formerly: AERO 86

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

AERO 210 Large Aircraft Systems and Performance Data 5 Units

Formerly: AERO 75

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

AERO 300 General Airframe and Powerplant 5 Units

Formerly: AERO 50

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

AERO 301 General Airframe and Powerplant Applications 3 Units

Formerly: AERO 52

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

AERO 302 Basic Electricity and Electrical Systems 5 Units

Formerly: AERO 51

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

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

Formerly: AERO 53

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

AERO 310 Powerplant Theory and Maintenance 5 Units

Formerly: AERO 61

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

AERO 311 Powerplant Theory and Maintenance Applications 3 Units

Formerly: AERO 63

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

AERO 312 Powerplant Systems and Components 5 Units

Formerly: AERO 60

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

AERO 313 Intermediate Powerplant Systems and Component Applications 3 Units

Formerly: AERO 62

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

AERO 320 Airframe Systems and Components 5 Units

Formerly: AERO 70

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

AERO 321 Airframe Structures 5 Units

Formerly: AERO 71

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

AERO 322 Airframe Systems and Components Applications 3 Units

Formerly: AERO 72

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

AERO 323 Airframe Structures and Systems Applications 3 Units

Formerly: AERO 73

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

AERO 330 Airframe Inspection 5 Units

Formerly: AERO 80

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

AERO 331 Powerplant Inspection 5 Units

Formerly: AERO 81

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

AERO 332 Airframe Inspection Applications 3 Units

Formerly: AERO 82

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

AERO 333 Powerplant Inspection Applications 3 Units

Formerly: AERO 83

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

AERO 340 Gas Turbine Development I 2 Units

Formerly: AERO 90A

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

AERO 341 Gas Turbine Development II 2 Units

Formerly: AERO 90B

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

AERO 350 Helicopter Rotor and Drive Systems I **2 Units**

Formerly: AERO 91A

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

AERO 351 Helicopter Rotor and Drive Systems II **2 Units**

Formerly: AERO 91B

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

AERO 360 Nondestructive Testing I **2 Units**

Formerly: AERO 92A

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

AERO 361 Nondestructive Testing II **2 Units**

Formerly: AERO 92B

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

AERO 362 Nondestructive Testing III **2 Units**

Formerly: AERO 92C

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

AERO 370 Introduction to Aviation **3 Units**

Formerly: AERO 55

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
The course is an introduction to aerodynamics, aircraft structures, and reciprocating/jet engines as used in aircraft. Topics also covered are the history of aviation, flying techniques, navigation and federal aviation regulations.

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

Formerly: AERO 85A

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

Flight Technology (FLTEC)

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

Formerly: AERO 85F

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

Electric Vehicle Technology (EVT)

EVT 100 Introduction to Electric Vehicles **3 Units**

Formerly: EVT 60

Prerequisite: None
54 hours Lecture
This course will provide an overview of the electric vehicle field. The topics covered will include electric vehicle technology, economics, regulations, environmental impact, and safety.

EVT 110 Introduction to Electric Vehicle Conversions 4 Units
Formerly: EVT 62

Prerequisite: None
54 hours Lecture; 54 hours Laboratory
This course introduces the student to the world of electric vehicle (EV) conversions. Students will be instructed with alternatives of gasoline powered vehicular travel and to the specific advantages of electric powered automobiles. Topics to be covered are the process of conversion of a gas powered vehicle to electric power, including testing, assembly, operation, and maintenance of EV's.

EVT 111 Electric Vehicle Drivetrain Components 3 Units
Formerly: EVT 64

Prerequisite: None
36 hours Lecture; 54 hours Laboratory
This course is an overview of the latest electric car drivetrain components that will be used in converting a gasoline powered automobile to electric power. Drivetrain components that will be used in original equipment manufactured or O.E.M. automobiles will also be studied.

EVT 120 Electric Bicycles, Mopeds, and Motorscooters 1 Unit
Formerly: EVT 67

Prerequisite: None
18 hours Lecture
This course will provide information on two wheeled electric vehicles. Included in the course will be information on bicycles, mopeds and motorscooters, both manufactured and converted by electrical vehicle hobbyists. Current technology on lightweight vehicle batteries, motors and controllers will be covered. The economics of owning and operating two-wheeled electric vehicles with safety and regulations will be covered.

EVT 121 Introduction to Electric Motorcycle Conversions 1 Unit
Formerly: EVT 68

Prerequisite: None
18 hours Lecture
This course introduces the student to electric motorcycle conversions. Students will be instructed in alternatives to internal combustion engines and specifically to electric power. Included are the conversion processes, testing, assembly, operation and general maintenance, and basic safety and government course topics regulations.

EVT 130 Electric Vehicle Batteries 3 Units
Formerly: EVT 66

Prerequisite: None
54 hours Lecture
This course introduces students to today's battery technology as it relates to electric vehicles. Students will be instructed on the various types of batteries found in automobiles and batteries of the future. Emphasis will be placed on battery safety, handling, and maintenance.

EVT 131 Introduction to Electric Vehicle Batteries 1 Unit
Formerly: EVT 71

Prerequisite: None
18 hours Lecture
This course will provide an introduction to electric vehicle battery technology. The topics covered will include battery theory, maintenance, and the use of various types of batteries used in electric vehicles.

EVT 140 Controllers for Electric Vehicles 1 Unit
Formerly: EVT 70

Prerequisite: None
18 hours Lecture
This course will prepare the student for an understanding of controllers used on electric vehicles. A history of controller evolution will be covered as well as the latest technology.

EVT 141 Introduction to Electric Vehicle Motors 1 Unit
Formerly: EVT 72

Prerequisite: None
18 hours Lecture
This course introduces the student to motors used in electric vehicles. The topics covered include electric motor theory and history of electric vehicle motors, and the commonly used electric vehicle motors of today. Also included will be topics on electric motor maintenance and troubleshooting.

EVT 294 Topics in Electric Vehicle Technology .5-4 Units
Formerly: EVT 85

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

Railroad Operations (RAILR)

RAILR 100 History of Railroading 3 Units
Formerly: RAILR 50

Prerequisite: None
54 hours Lecture
This course covers the history and traditions of railroading and the industry's role in North American Economic Development. Upon successful completion of this course, students should be able to list and explain the significance of major events in North American Railroading.

RAILR 102 Railroad Technical Careers 3 Units

Formerly: RAILR 51

Prerequisite: None
54 hours Lecture
This course includes information about technical careers in railroading, thereby, enabling student to choose suitable career paths. This course includes field trips that will demonstrate the relationship among technical work groups in day-to-day railroad operations. Upon successful completion of this course, students should be able to describe basic technical job functions, requirements and characteristics.

RAILR 120 Railroad Operations 3 Units

Formerly: RAILR 52

Prerequisite: None
54 hours Lecture
This course includes information about the industry, its major assets, structures and typical operations. Upon successful completion of this course, students should be able to define the current North American railroad industry characteristics, basic operations, components, and processes and industry structure and administrative processes.

RAILR 122 Railroad Safety, Quality, and Environment 3 Units

Formerly: RAILR 53

Prerequisite: None
54 hours Lecture
This course covers the importance of safety quality, personal health and environmental awareness to the railroad industry and emphasizes the basic tools and techniques for improving these conditions on the job. Upon successful completion of this course students should be able to define and explain the needs for improved safety, quality, health, and environmental awareness, describe their basic principles, explain the elements of successful programs, and apply these elements to typical tasks on the job.

RAILR 140 General Code of Operating Rules 3 Units

Formerly: RAILR 54

Prerequisite: RAILR 120 and 122.
54 hours Lecture
This course provides instruction in the use and application of railroad rules, timetables, general orders, track bulletins, track warrants and train orders. The student will learn their interpretation, origin and use in the railroad industry. Students are required to pass the Sacramento Southern Rules Examination with an 85 for the mid-term exam, and will be required to write, and re-write general orders, timetables and rules. This course may be taken two times for credit if a grade of 85 is not obtained on the Sacramento Southern Rules Exam.

RAILR 142 Ground School 3 Units

Formerly: RAILR 55

Prerequisite: RAILR 120, 122, 140, and a pass grade for Sacramento Southern Rules.
36 hours Lecture; 54 hours Laboratory
This course provides for use and application of railroad rules, timetables, general orders, track bulletins, track warrants and train orders. The student will apply these in a railroad setting, making up trains, and switching boxcars from switch lists and work orders. Students are required to show that they have passed the Sacramento Southern Rules examination on their first day of class. Students not qualified in the rules will not be allowed to continue in the class. Students will be required to make up trains, couple and uncouple cars and locomotives, troubleshoot air brakes systems, get on and off moving equipment, remove and apply knuckles of cars (knuckles weigh 75 pounds) and throw switches. Students are required to wear steel toe boots with defined heels, leather gloves, loose fitting jeans or coveralls and head covers. The students will work one student trip and ride for an additional fifteen trips.

RAILR 144 Air Brakes 3.5 Units

Formerly: RAILR 56

Prerequisite: None
Advisory: RAILR 120 and 122.
54 hours Lecture; 27 hours Laboratory
This course offers an overview of the train air brake system from the rear of the engine to the flashing rear end device with a focus on the American brake valve. Emphasis is placed on Federal Railroad Administration requirements for Initial Terminal Brake Test, as well as industry Air Brake Rules on the use and application of the air brake system. The course includes inspection of the load, under carriage, air brake connections, hand brake systems, drain valves and cut-out cocks.

RAILR 294 Topics in Railroad Operations .5-4 Units

Formerly: RAILR 85

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

Recreational Vehicle Technology (RVT)

RVT 100 Introduction to Recreational Vehicle Systems 4 Units
Formerly: RVT 70

Prerequisite: None
72 hours Lecture
This course is designed to teach students the theory, operation, service and maintenance of the various systems in modern recreational vehicles. Further, the course will cover the advantages and disadvantages of the different types of RVs and common maintenance issues for each. This course is ideal for students who want to learn how RV chassis and coach system function and for owners, potential owners, and mechanics who want to learn how to select, service, and maintain them.

RVT 200 Introduction to Recreational Vehicle Service and Basic Electricity 5 Units
Formerly: RVT 50

Prerequisite: None
60 hours Lecture; 90 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include an introduction to RV service including types of RVs, tools, and safety. Also included is basic electricity for those who have no electrical background and a refresher for those who do.

RVT 201 Recreational Vehicle Systems I 3 Units
Formerly: RVT 51

Prerequisite: None
40 hours Lecture; 60 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include the components that make up the RV DC and AC electrical systems (excluding Gen-sets which are in RVT V), schematic reading and wiring.

RVT 202 Recreational Vehicle Systems II 3 Units
Formerly: RVT 52

Prerequisite: None
40 hours Lecture; 60 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include the handling of LP gas, its systems and components, RV water heaters, and RV heating systems.

RVT 203 Recreational Vehicle Systems III 2 Units
Formerly: RVT 53

Prerequisite: None
28 hours Lecture; 42 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include RV roof air conditioning systems, an overview of welding, sheet metal and fiberglass repair.

RVT 204 Recreational Vehicle Systems IV 5 Units
Formerly: RVT 54

Prerequisite: None
60 hours Lecture; 90 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include Absorption Refrigeration, RV plumbing of fresh and waste water systems, toilets and other components, RV hydraulic Systems for jacks and glide outs.

RVT 205 Recreational Vehicle Systems V 3 Units
Formerly: RVT 55

Prerequisite: None
40 hours Lecture; 60 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include RV AC generators (Gen-Sets), exterior and interior coach maintenance including siding, roofs, floor coverings, and related topics.

RVT 206 Recreational Vehicle Systems VI 3 Units
Formerly: RVT 56

Prerequisite: None
40 hours Lecture; 60 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include chassis suspension systems, towing system components, RV preventive maintenance and RV pre-delivery inspections (no engine or transmission repair).

RVT 207 Recreational Vehicle Systems VII 2 Units
Formerly: RVT 57

Prerequisite: None
28 hours Lecture; 42 hours Laboratory
This is one of eight courses designed for students pursuing certification as a Recreational Vehicle Service Technician. Units of instruction include customer relations, RV recordkeeping and forms, RV ranges and ovens.

RVT 294 Topics in Recreational Vehicle Technology .5-4 Units
Formerly: RVT 85

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

Allied Health A H

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

(916) 558-2271

AH 100 Professional Ethics of Health Team Members 1 Unit

Formerly: AH 52

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

AH 102 Health Education of Patients and Family 1 Unit

Formerly: AH 53

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

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

Formerly: AH 55

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

AH 106 Communication for Allied Health Careers 2 Units

Formerly: AH 51

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

AH 110 Medical Language for Health-Care Providers 3 Units

Formerly: AH 54

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

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

Formerly: AH 50

Prerequisite: None
54 hours Lecture
Allied Health 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 310 Sign Language for Health Care Personnel and Health Care Students (Same as SILA 336) **1 Unit**

Formerly: AH 21

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

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

Formerly: AH 22

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

Anthropology ANTH

Associate in Arts Degree

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

Career Opportunities

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

Recommended High School Preparation

Preparatory courses including history, English, mathematics, and foreign languages.

Program Information

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

Required Program	Units
ANTH 300, Physical Anthropology	3
ANTH 301, Physical Anthropology Laboratory	1
ANTH 310, Cultural Anthropology	3
ANTH 320, Introduction to Archaeology & World Prehistory	3
One other three-unit Anthropology course	3
Plus courses in Geography, Sociology, or History	12
Total Units Required	**25**

Associate in Arts (A. A.) Degree

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

Anthropology (ANTH)

ANTH 300 Physical Anthropology 3 Units

Formerly: ANTH 1

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

ANTH 301 Physical Anthropology Laboratory 1 Unit

Formerly: ANTH 11

Prerequisite: ANTH 300 or 480 or concurrent enrollment. Eligibility for ENGWR 100 or ESLW 340 is required.
General Education: AA/AS Area A.
Acceptable for credit: UC (only if taken after or concurrently with ANTH 300 or 480)/CSU
54 hours Laboratory
This course is an introductory laboratory course designed to provide students with an opportunity to become familiar with the methods of the science of biological anthropology while investigating topics in laboratory and field situations. Topics covered in the course are: the scientific method, sources of biological variation and forces of evolution, human osteology, human variation, taxonomy and comparative osteology of the primates, and the fossil evidence for human evolution. Field trips may be included at the discretion of the instructor.

ANTH 310 Cultural Anthropology 3 Units

Formerly: ANTH 2

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

ANTH 315 Cultures in Focus 3 Units

Formerly: ANTH 13

Prerequisite: Eligibility for ENGWR 100 or ESLW 340 is required.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines American and non-Western /Third World 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 320 Introduction to Archaeology and World Prehistory 3 Units

Formerly: ANTH 3

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

ANTH 322 Archeological Site Identification 1.5 Units

Formerly: ANTH 5B

Prerequisite: None
Acceptable for credit: CSU
27 hours Lecture
This class provides classroom and field experience in all aspects of identifying prehistoric and historic sites: map reading, making sketch maps, artifact identification, historic and prehistoric background of Northern California, completing an official Site Survey Form acceptable to State Standards, and experience identifying sites in real field situations. Students receive partial preparation for entry-level jobs with government agencies or archeological consulting films. Two field trips are required. This class may be repeated once for credit.

ANTH 330 Magic, Witchcraft, and Religion 3 Units

Formerly: ANTH 12

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

ANTH 332 Native Peoples of California 3 Units

Formerly: ANTH 7

Prerequisite: Eligibility for ENGWR 100 or ESLW 340 is required.
General Education: AA/AS Area B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of the Native inhabitants of California from the prehistoric period to the present time, in addition to offering an introduction to the diversity and complexity of aboriginal California. It includes the environmental adaptation, material culture, social structure, ideology, and response to change. This course meets the SCC Multicultural Graduation Requirement for comparative examination of the 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

Formerly: ANTH 8

Prerequisite: Eligibility for ENGWR 100 or ESLW 340 is required.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
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 480 Honors Physical Anthropology 3 Units

Formerly: ANTH 1H

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

ANTH 481 Honors Cultural Anthropology 3 Units

Formerly: ANTH 2H

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

ANTH 494 Topics in Anthropology 1-3 Units

Formerly: ANTH 44

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

Art ART

Associate in Arts Degree

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

Required Program	**Units**
ART 300 and 302, Elementary Drawing and Composition	3-3
ART 320, Design Fundamentals	3
ART 370, Three Dimensional Design	3
Art Theory or History (ARTH 300, 304, 306, 308, 310, 312, 324, 328, 330, 332)	3
Electives: Any other Art courses	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.

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

Art (ART)

ART 300 Elementary Drawing and Composition 3 Units

Formerly: ART 11A

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

ART 302 Elementary Drawing and Composition 3 Units

Formerly: ART 11B

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

ART 304 Figure Drawing and Composition 3 Units
Formerly: ART 12A
Prerequisite: ART 300 or equivalent with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course includes a study of the aesthetic form of the human figure in historical context by analyzing and composing its structural elements with respect to line, tone, shape and color. Models draped and/or undraped will be used as subject. The course may be taken twice for credit.

ART 307 Rendering 3 Units
Formerly: ART 13
Prerequisite: ART 300 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course covers advanced problems in linear and tonal drawing techniques with emphasis on expression handling in a variety of media. This course may be taken twice for credit.

ART 310 Pen and Ink Drawing 3 Units
Formerly: ART 31
Prerequisite: None
Advisory: ART 300 with a grade of "C" or better or equivalent.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course emphasizes the fine art of black and white lines and mass drawing using a variety of pen and ink, brush and ink techniques, and materials. Studied are compositional and pictorial elements using line, light, space, texture, and value. This course is intended for those interested in fine art, illustration and graphic design and is not restricted to art majors. This course may be taken twice for credit.

ART 312 Portrait Drawing 3 Units
Formerly: ART 36
Prerequisite: ART 300 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to and exploration of the human image as a source of art. Stressed is the concentration on developing the skills needed to portray specific individuals, rather than a generalized image of people. This is primarily a practice course including elements of the history and traditions of portraiture. This course may be taken twice for credit.

ART 320 Design: Fundamentals 3 Units
Formerly: ART 14
Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to the formal aspects of line, shape, tone and color and theories of their organization and composition. This course is a basic requirement for all art students.

ART 322 Design: Image and Content 3 Units
Formerly: ART 15A
Prerequisite: None
Advisory: ART 320 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course involves further studies introducing the formal aspects of line, shape, tone, and color and theories of their organization and composition.

ART 325 Introduction to Graphic Design 3 Units
Formerly: ART 30A
Prerequisite: None
Advisory: ART 300 and ART 320 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course emphasizes layout, lettering, illustration, color, and design in various media applied to problems in advertising. This course may be taken twice for credit.

ART 326 Graphic Design Production 3 Units
Formerly: ART 30B
Prerequisite: ART 325 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides intermediate-level study of layout, illustration, color and type theory as applied to problems in two and three-dimensional graphic design. This course may be taken twice for credit.

ART 332 Oil Painting 3 Units
Formerly: ART 18

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

ART 334 Acrylic Painting 3 Units
Formerly: ART 19

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

ART 336 Watercolor Painting 3 Units
Formerly: ART 20A

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

ART 368 Printmaking: Etching and Relief 3 Units
Formerly: ART 23

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

ART 369 Printmaking: Lithography and Silk Screen 3 Units
Formerly: ART 24

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

ART 370 Three Dimensional Design 3 Units
Formerly: ART 16

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

ART 372 Sculpture 3 Units
Formerly: ART 21A

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

ART 373 Sculpture 3 Units
Formerly: ART 21B

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

ART 380 Techniques in Metal Design 3 Units
Formerly: ART 27A

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

ART 381 Techniques in Metal Design 3 Units
Formerly: ART 27B

Prerequisite: Art 380 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an intermediate-level that offers individual exploration and independent research in decorative metals working in two and three-dimensional forms. It is a concentrated study of intermediate work in elements of metal design and form, including enameling, engraving, laminating, and assembling design parts. This course may be taken twice for credit.

ART 390 Ceramics 3 Units
Formerly: ART 25A

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

ART 391 Intermediate Ceramics 3 Units
Formerly: ART 25B

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

ART 394 Wheel Thrown Ceramics, Beginning 3 Units
Formerly: ART 37

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

ART 400 Clay Sculpture 3 Units
Formerly: ART 43

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

ART 421 Film-Making 3 Units
(Same as TA 331)
Formerly: ART 29A

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

ART 440 Artists' Materials and Techniques 3 Units
Formerly: ART 32

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to the general area of artists' materials and techniques. Included are the use of tools in construction painting supports and techniques in matting, framing, and art display. Emphasized are pigment composition study and the appreciation of historical, traditional, and modern techniques in two and three-dimensional media. This course may be taken twice for credit.

ART 443 Art Gallery Operations 3 Units
Formerly: ART 33A

Prerequisite: None
Advisory: ARTH 300 with a grade of "C" or better or equivalent.
General Education: AA/AS Area C.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This first-semester course involves gallery preparation and maintenance as students learn gallery fundamentals in the visual arts. Involved are experiences in planning and installing exhibitions, inventory, and maintenance of a permanent art collection, and participation in staffing and docent activities and gallery and student Artreach programs.

ART 445 Art Gallery Operations 3 Units
Formerly: ART 33B

Prerequisite: ART 443 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This second-semester course involves further study of gallery preparation and maintenance as students learn gallery fundamentals in the visual arts. Involved are experiences in planning and installing exhibitions, inventory, and maintenance of a permanent art collection, and participation in staffing and docent activities and gallery and student Artreach programs. Second-semester students do advanced studies and work in campus exhibitions, Artreach community programs, and the Permanent Art Collection.

ART 494 Topics in Art .5-4 Units
Formerly: ART 42

Prerequisite: None
Advisory: ART 300 and ART 320.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture; 162 hours Laboratory
This course is designed to give students an opportunity to study topics not included in current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

ART 495 Independent Studies in Art 1-3 Units
Formerly: ART 49I

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Laboratory

ART 498 Work Experience in Art 1-4 Units
Formerly: ART 48

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
This course involves 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; and, 75 or 60 hours of related work experience for each additional unit. The course may be repeated when there is new or expanded learning on the job.

Art History (ARTH)

ARTH 300 Introduction to Art 3 Units
Formerly: ART 10

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course emphasizes the sources, developments, and problems of art expression. Included are illustrated lectures, readings, and discussions on the various manifestations of art. This course is recommended as a basis for the understanding of art. A field trip to an art exhibition is required.

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

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the architecture, sculpture, and painting of the Near East and Europe from the Stone Age through the Middle Ages. Art works of each period are discussed and related to respective cultures. Field trips and/or individual visitation to art galleries and museums are required.

ARTH 304 Ancient Art 3 Units
Formerly: ART 1

Prerequisite: None
Advisory: Eligibility for ENGWR 100.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU; CAN ART 2 (ART 1 and 2)
54 hours Lecture
This course is an introduction to the development of western art from the Prehistoric era through the Roman period. Emphasis is on ancient Near Eastern, Egyptian, Greek, and Roman cultures. Comparisons are made with other cultures.

ARTH 306 Medieval Art 3 Units
Formerly: ART 2

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU; CAN ART 2 (ART 1 and 2)
54 hours Lecture
This course is an introduction to the original and development of Christian Medieval Art, including the near Eastern, Greek, Roman, Byzantine, Celtic, Romanesque and Gothic contributions. Comparisons are made with other traditions.

ARTH 308 Renaissance Tradition in Art 3 Units
Formerly: ART 4

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the development of realism and illusionism in Western art from its roots in the Greco-Roman world to its flowering in the 15th and 16th Centuries in Europe. Also emphasized are the Mannerist, Baroque, and 19th and 20th Century styles. Emphasis also is on the mode of perception created through the Renaissance tradition. A field trip to the Bay area art museums is required.

ARTH 310 Modern Art 3 Units
Formerly: ART 5

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a study and evaluation of 19th and 20th Century art forms in painting, sculpture and architecture. Emphasis is on 20th Century art.

ARTH 312 Women in Art 3 Units
Formerly: ART 35

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of Women's Art from the Middle Ages to the present, including the art of women from both European and non-European cultures.

ARTH 320 Cultural Survey of World Art 3 Units

Formerly: ART 45

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the variety and diversity of important, but often underrepresented, cultures in America. The course is a survey of art forms and the contributions made by the ethnically diverse peoples who make up and contribute to the United States culture and character. To emphasize cultural diversity, instruction will include guest lectures by multicultural artists, as well as required field trips.

ARTH 324 Art of the Americas 3 Units

Formerly: ART 6

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course includes the study of the aboriginal arts and artists of the Americas. Emphasis is on the great Pre-Columbian cultures of Mexico and Peru and their contributions to colonial and modern art forms.

ARTH 328 Survey of African Art 3 Units

Formerly: ART 7

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to Black Africa in terms of its cultural and philosophical background; its materials and techniques; and, its impact on 20th Century Western art.

ARTH 330 Survey of African-American Art 3 Units

Formerly: ART 8

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course emphasizes the art of the Black person in America, including the African roots; background in colonial and republican America; the "Negro" Renaissance in the 1920's; and, the contemporary scene.

ARTH 332 Asian Art 3 Units

Formerly: ART 9

Prerequisite: Eligibility for ENGWR 100.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introductory art survey of India, China and Japan, featuring their architecture, sculpture, painting and significant minor art forms from Neolithic to modern times. The immense contributions of East Asian arts to the world's art heritage are shown in their relation to and distinction from each other and to Western culture.

Astronomy ASTR

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

ASTR 310 The Solar System 3 Units

Formerly: ASTR 1A

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a descriptive course treating the nature and evolution of the solar system. Topics will include the characteristics of the planets and their satellites, comets, meteorites, and the sun. Emphasis will be placed on how astronomers gain and refine their knowledge of the universe and interpret the latest results of planetary exploration.

ASTR 320 Stars, Galaxies, and Cosmology 3 Units

Formerly: ASTR 1B

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a descriptive course treating the nature and evolution of stars and 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. Astronomy 310 is not a prerequisite for Astronomy 320.

ASTR 330 Life in the Universe 3 Units

Formerly: ASTR 30

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will investigate the scientific basis of the search for life beyond the Earth. We will investigate the origin and evolution of stars, planets, and life on Earth, and will try to estimate the likelihood that life exists elsewhere in the universe. We will also study past and on-going attempts to communicate with intelligent beings beyond our planet.

ASTR 400 Astronomy Laboratory 1 Unit

Formerly: ASTR 2

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Laboratory
This course will emphasize the practical use of a telescope for both visual observation and astrophotography and the identification of constellations. Students will obtain experiences in the collection and interpretation of scientific data.

ASTR 435 Frontiers in Astronomy 3 Units

Formerly: ASTR 25

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a continuation course for students of introductory astronomy who want an in-depth look at topics at the forefront of astronomical research. The topics covered will change from year to year, but will include such things as black holes, relativity and warped space time, dark matter recent developments in cosmology, quasars, gravitational waves, and extraterrestrial life. Emphasis will be placed on how astronomers gain and refine their knowledge of the universe and interpret the latest results of space exploration.

ASTR 494 Topics in Astronomy .5-4 Units

Formerly: ASTR 22

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in astronomy. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.

Biology BIOL

Associate in Science Degree

Field Ecology, Career Certificate

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

Biologists work as laboratory technologists, x-ray and respiratory technologists, physical therapists, physicians, nurses and researchers in the medical field; as foresters, wildlife and fisheries biologists, field ecologists, ethnobiologists, botanists, entomologists, and others in field biology and ecology; as veterinary technicians, researchers and doctors in veterinary medicine; as agronomists, plant pathologists, enologists and pest management specialists in agriculture; as educators in K-12 schools, community colleges and universities; and in many other careers.

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

Required Program	**Units**
Select 10 units from the following courses:	
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

The remaining eight (8) units may obtained by completion of any biology courses offered at Sacramento City College, including ones listed above, or equivalent courses from other colleges/universities, and CHEM 400 (5 units) or CHEM 305 (5 units).

Total Units Required 18

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

Associate in Science (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.

Field Ecology

Career Certificate

Program Information: The Field Ecology Certificate program provides the student with the training and education necessary to succeed in governmental agency and private businesses/non-profits that provide field ecology services. The students will have the opportunity to learn ecological field methods including identification of flora and fauna, quantitative assessment methods, wetland delineations, regulatory processes, restoration ecology, and geographic information systems. In addition to field methods, students will receive education in general ecological principles.

Career Opportunities: The Field Ecology Certificate can fulfill the needs of agencies and private businesses/non-profits for entry-level ecological/environmental technicians and field biologists. Entry-level jobs can be found in governmental resource agencies at the federal, state, and local levels and in private environmental consulting businesses and private non-profit environmental organizations.

Advancement Opportunities: This certificate program will provide advancement opportunities to those currently employed in the environmental and resource professions. In addition to updating of job skills, this certificate will provide new training and education opportunities for returning and continuing students.

Required Program **Units**

Two Pathways:

All required courses (13 units) and,
No more than five (5) units from Course Group A, and
No less than five (5) units from Course Group B.
OR
All required courses (13 units), and
No less than ten (10) units from Course Group B.

Required Courses:

BIOL 305, Natural History 4
BIOL 320, Field Botany 3
BIOL 360, Environmental Regulations 3
BIOL 362, Field Methods in Ecology 3

Course Group A:

BIOL 412, Plant Biology 5
BIOL 422, Animal Biology 5

Course Group B:

BIOL 330, Natural History of Insects 3
BIOL 350, Environmental Biology 3
BIOL 390, Natural History Field Study 2
BIOL 364, Restoration Ecology 2
BIOL 323, Ethnobotany 4
BIOL 370, Introduction to Marine Environment 4
BIOL 494, Special Topics: California Oaks and Oak Woodlands 3
BIOL 352, Conservation Biology (at ARC) 4
GEOG 330, Introduction to Geographic Information Systems 2
GEOG 332, Introduction to Desktop GIS 2
GEOG 333, Intermediate Desktop GIS 2
GEOL 345, Geology of California 3
CHEM 320, Environmental Chemistry 4

Total Units Required **23**

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

Biology (BIOL)

BIOL 100 Introduction to Concepts of Human Anatomy and Physiology 3 Units

Formerly: BIOL 60

Prerequisite: None
General Education: AA/AS Area A.
54 hours Lecture
This is a lecture course required for students entering the licensed vocational nursing and occupational therapy assistant programs. It is designed for students having little or no background in the biological sciences. The course is also open to any students wishing to fulfill their general education requirement, or those intending to pursue studies in the biological sciences who need to strengthen or develop a vocabulary in human anatomy and physiology.

BIOL 305 Natural History 4 Units

Formerly: BIOL 10

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
The course is a survey of ecosystems in California, with a special emphasis on the relationships between the species and general ecological concepts. Students will explore the environment and diversity of organisms occurring in our geographical area, but will be able to apply this knowledge to other areas as well. Attendance on a minimum of one or two field trips is required. The course is designed for the non-science major.

BIOL 308 Contemporary Biology 3 Units

Formerly: BIOL 28

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after BIOL 402)/CSU
54 hours Lecture
This course is a survey of biological science intended to equip the student to think and act intelligently with respect to contemporary issues in biology. Biological topics are introduced in a framework of natural selection. The course is intended 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 will be offered as an optional accompanying course.

BIOL 309 Contemporary Biology Laboratory 1 Unit

Formerly: BIOL 28L

Prerequisite: None
Advisory: Concurrent enrollment in BIOL 308.
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after BIOL 402)/CSU
54 hours Laboratory
This course is an optional laboratory accompaniment to BIOL 308. The sessions will illustrate biological phenomena and their relationship to contemporary concerns and discoveries in biology.

BIOL 320 Field Botany 3 Units

Formerly: BIOL 21

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed for both science and non-science students to learn about plant taxonomy. Students will learn about the classification of flowering plants, how to identify plant species, and will become familiar with native plants of California as well as their ecological relationships and historical uses. A plant collection and a minimum of 10 field trips are required.

BIOL 323 Ethnobotany 4 Units

Formerly: BIOL 23

Prerequisite: None
General Education: AA/AS Areas A, F
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This introductory course focuses on the concepts, questions, and methods of ethnobotany, the scientific study of the interactions between plants and humans. Students will use the scientific method to investigate the ecological and biological traits of plants, how these traits have shaped multicultural human use, and have also been affected by humans. Topics include plant structure and reproduction, biodiversity and plant evolution in natural and cultivated systems, traditional ecological knowledge and management techniques, ethnobotanical research methods and ethical issues, and a comparison of plant use by various cultures for food, medicine, shelter, basketry, and dyes. Laboratory topics include plant identification, experimental investigation of medicinal and food value of selected plants, traditional preparation of selected plants, preparation of herbarium specimens, and analysis of plant fibers and dyes. One field trip is required.

BIOL 330 Natural History of Insects 3 Units

Formerly: BIOL 8

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an introduction to the science of Entomology. Approximately eighty percent (80%) of all known species of animals are insects, therefore, they often have a profound effect on human civilization. Insects are extremely successful animals, and despite their small size, they affect many aspects of human lives. All varieties of natural and modified ecosystems, both terrestrial and aquatic, support communities of insects that present a variety of lifestyles, forms, and functions. Through the study of insects, students can observe the major principles of numerous fields of study including ecology, ethology (behavioral ecology), population, and community ecology, among others, right in their own backyards. Due to their diversity and presence in all kinds of environments, insects provide a good framework for making scientific observations. Attendance on one field trip is required.

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

Formerly: BIOL 31

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will explore the biology, epidemiology, and pathology of selected pathogenic prions, viruses, bacteria, protozoa, and helminthes threatening public health worldwide. The course will also explore how human behavior and human activities have catalyzed the emergence of new infectious diseases and re-emergence of ancient plagues.

BIOL 350 Environmental Biology 3 Units

Formerly: BIOL 14

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
Basic biological and ecological principles in relation to environmental disruptions. Human interactions with the environment; their meaning for animals and plants. Discussion of basic ecological processes as a basis for understanding environmental problems and formulating strategies for their solution.

BIOL 360 Environmental Regulations 3 Units

Formerly: BIOL 33

Prerequisite: BIOL 305.
Advisory: ENGWR 100.
Acceptable for credit: CSU
54 hours Lecture
This course examines the environmental regulatory process in California. Federal and California environmental laws will be studied and discussed. Relevant laws include: The National Environmental Policy Act, Federal Endangered Species Act, Marine Mammal Protection Act, Clean Water Act, California Environmental Quality Act, California Endangered Species Act, California Fish and Game Code, California Coastal Act. In addition, the jurisdictional wetland delineation process will be studied in detail including fieldwork to demonstrate the process. Students will be introduced to these regulations during lectures and will participate in discussions and examinations of case studies involving these laws. Good writing skills are advised for this course. Field trips are required.

BIOL 362 Field Methods in Ecology 3 Units

Formerly: BIOL 34

Prerequisite: BIOL 305 AND BIOL 320 or equivalent college-level courses.
Advisory: ENGWR 100.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to methods for sampling and studying of a variety of organisms in the field with a particular emphasis on the vegetation, fish, and wildlife of the area. The goals are to gain experience and develop skills in the following areas: identification of plants and animals, first-hand knowledge of a wide array of organism life histories, quantitative field research techniques and procedures applicable to plants and animals, and recording of data and observations in a field notebook. Required field trips are to local habitats and focus on seasonally relevant events and processes.

BIOL 364 Restoration Ecology 2 Units

Formerly: BIOL 35

Prerequisite: None
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
Restoration ecology is the science of creation, management, and perpetuation of wildlife habitat. This course will examine this subject through lectures about existing and on-going habitat restoration techniques in the Sacramento area and visits to these restored areas to observe firsthand the restoration methods, management, and success of the sites. Students will have the opportunity to meet the scientists currently working in this field and employing these technologies. Field trips are required.

BIOL 370 Introduction to Marine Environment 4 Units

Formerly: BIOL 15

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to marine biology and oceanography. It includes the study of marine vertebrates and invertebrates, tide pool and coastal ecology, sea water, tides, currents, marine geology, and coastal processes. Instruction includes both lab and lecture, and required field trips to study intertidal plants and animals and coastal ecology. The required field trips will involve tent camping over one two-day and one three-day weekend and will focus on the North and Central California Coast. Field trip dates will be announced at the first class meeting.

BIOL 390 Natural History Field Study .5-4 Units

Formerly: BIOL 24

Prerequisite: None
Acceptable for credit: CSU
27 hours Lecture; 144 hours Laboratory
This course examines the ecology and natural history of specific areas (mountains, deserts, tide pools, coast, etc.). Plants, animals, and/or geology of the area will be studied with special emphasis on ecological interrelationships. Students will be responsible for providing own lodging (or camping equipment) and meals. Campsites may be available. This course is ideal for future teachers, parents, resource management majors, and those interested in the biological sciences. Field trips are required. Units are awarded based on both lecture and laboratory (one-half unit per 9 hours lecture and/or 27 hours laboratory or a combination of lecture and laboratory hours: e.g. 3 hours lecture and 18 hours laboratory).

BIOL 402 Cell and Molecular Biology 5 Units

Formerly: BIOL 5A

Prerequisite: Completion of CHEM 305 or CHEM 400 or an equivalent college level chemistry course with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This is 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 SEQ A Sum of CAN BIOL 2, 4, and 6)

BIOL 412 Plant Biology 5 Units

Formerly: BIOL 5B

Prerequisite: Completion of BIOL 402 or equivalent course with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This course is part of a three-semester general biology sequence designed for biology majors. It builds upon and applies concepts developed in BIOL 402 to the study of plants and general ecology. Topics covered include the diversity, taxonomy, and evolutionary trends observed among the cyanobacteria, algae, fungi, and plants, with special emphasis on higher plants; the comparative anatomy and physiology of higher plants; and general ecology, including population, community, and ecosystem dynamics. Two field trips are required. (BIOL SEQ A Sum of CAN BIOL 2, 4, and 6)

BIOL 422 Animal Biology 5 Units

Formerly: BIOL 5C

Prerequisite: Completion of BIOL 402 or an equivalent college level Cell and Molecular Biology course with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This is part of a three-semester sequence in general biology designed for biology majors. It applies concepts developed in Biology 402 to the study of animals and evolution. Topics covered include animal diversity and classification, comparative anatomy and physiology, animal embryology and development. Additional topics include an introduction to the population genetics, macro- and microevolution, and speciation. Emphasis will be placed on the evolutionary relationships among animals, their adaptations to different environments, and the evolutionary origin of novel characteristics through the Animal Kingdom. (BIOL SEQ A Sum of CAN BIOL 2, 4, and 6)

BIOL 430 Anatomy and Physiology 5 Units

Formerly: BIOL 25

Prerequisite: The student is required to have completed CHEM 305 (or the equivalent or higher college chemistry course) with a grade of "C" or better, or to have completed BIOL 402 (or the equivalent) with a grade of "C" or better.
Advisory: CHEM 306.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This course is an introduction to normal structure and function in humans. The course stresses an understanding of physiological principles as related to body structure. The course includes study of the basic principles of physiology and anatomy, general histology, and the integumentary, skeletal, muscular and nervous systems. BIOL 431 follows BIOL 430 and is necessary for completion of the study of human anatomy and physiology.

BIOL 431 Anatomy and Physiology 5 Units

Formerly: BIOL 26

Prerequisite: Successful completion of BIOL 430 (or the equivalent) with a grade of "C" or better is necessary for entry into BIOL 431. If BIOL 430 or its equivalent was taken at another college, care must be taken to insure that the same body systems were included.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
BIOL 431 is the continued study of normal structure and function in humans. Included in the course is the study of the circulatory, respiratory, digestive, urinary, reproductive and endocrine systems. Special topics included in the course are pH, fluids, and electrolytes.

BIOL 440 General Microbiology 4 Units

Formerly: BIOL 6

Prerequisite: CHEM 400, 305 or equivalent with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 72 hours Laboratory
The course includes the study of selected morphological, physiological, and biochemical aspects of representative micro-organisms. The laboratory includes aseptic technique, metabolism, genetics, and taxonomy. This course is intended for students in allied health majors.

BIOL 464 Dinosaurs and the Science of Life 3 Units

Formerly: BIOL 19

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course investigates the evolution, form, function and extinction of dinosaurs as a means of introducing students to scientific principles that are common to all forms of life on Earth. Topics will include scientific methodology; the mechanisms of evolution; the structure, early history and geologic processes of the Earth; the evolutionary history of life on Earth; the diversity, ecology, physiology and behavior of dinosaurs; birds as dinosaurs. Additional topics will include proposed mechanisms of dinosaur extinction including meteor impacts, volcanic plume events, global winters, global greenhouse warming, acid rain, and how each may occur today; the structure and function of DNA, cellular reproduction, DNA and cloning technologies and whether they can be used to resurrect extinct organisms such as dinosaurs.

BIOL 465 Dinosaurs and the Science of Life Laboratory 1 Unit

Prerequisite: None
Corequisite: Completion of or concurrent enrollment in BIOL 464.
Acceptable for credit: UC (only if taken after or concurrently with BIOL 464)/CSU
54 hours Laboratory
This course is an optional laboratory component to accompany BIOL 465. 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 465. Students may take this course either concurrently with or any time after completion of BIOL 465.

BIOL 466 Science, Pseudoscience, and Quackery 3 Units

Formerly: BIOL 37

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an explanation of science; from fact to fiction. It will include a brief history of the scientific method with comparisons of legitimate and illegitimate science. The course also includes pseudoscientific ideas and the reasons why they are considered pseudoscientific. A major theme running through this course will be the use of critical thinking. Examples will be drawn primarily from the biological sciences.

BIOL 494 Topics in Biology .5-4 Units

Formerly: BIOL 22

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in biology. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplicating of topics.

BIOL 496 Teaching Assistant in Biology 1-4 Units

Formerly: BIOL 46

Prerequisite: A grade of "B" or better in the course for which the student is going to be a teacher aide.
Acceptable for credit: CSU
27 hours Lecture; 81 hours Laboratory
This course is for students who want to develop an in-depth understanding of the fundamentals of Biology and learn to work with individual and small groups of students.

Business BUS

Business, General, Associate in Science Degree

Business, Transfer, Associate in Arts Degree

Bookkeeping and Office Management, Degree and Career Certificate

Business - Management, Degree and Career Certificate

Business, Retail Management, Small Business Management, Degree and Career Certificate

Business - Marketing, Degree and Career Certificate

Business, Advertising, International Business

Business - Office Administration, Degree and Career Certificate

Business - Real Estate, Degree and Career Certificate

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

Within the Business area, specific majors are available in Accounting, Advertising, Management, Marketing, and Real Estate. Other Business majors include Bookkeeping and Office Management, Computer Information Science, and Office Administration. Further information on these majors can be found under the specific program.

Business, General

Required Program

Business Core	**Units**
ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4
BUSTEC 300, Beginning Keyboarding/ Applications (module 2)	1
BUS 300, Introduction to Business.	3
BUS 106, Business Mathematics, OR ECON 310, Economic Statistics	3
CISC 300, Computer Familiarization	1
Total Core Units	**11-12**

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. Many courses are available in a nine-week format.

Concentration Requirements:

BUS 330, Managing Diversity in the Workplace	3
BUS 345, Law and Society, OR BUS 340, Business Law	3
BUS 310, Business Communications	3
BUS 100, Business English	3
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Data Base Management	1
ECON 302, Principles of Macroeconomics, OR ECON 100, Introduction to Economics	3
MGMT 304, Introduction to Management Functions, OR MGMT 372, Human Relations and Organizational Behavior	3
MKT 300, Principles of Marketing	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.

Business, Transfer

Associate in Arts Degree

This program is designed for those who plan to transfer to a four-year university. It meets the common core of lower-division courses required by most colleges and universities. Students should confer with their counselor regarding the specific transfer and general education requirements of the college they wish to attend. Some colleges and universities may have different requirements.

Required Program	**Units**
ACCT 301, Financial Accounting	4
ACCT 311, Managerial Accounting	4
BUS 300, Introduction to Business	3
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISC 320, Beginning Operating Systems	1
ECON 302, Principles of Macroeconomics	3
ECON 304, Principles of Microeconomics	3
ECON 310, Economic Statistics, OR STAT 300, Introduction to Probability and Statistics	3-4
MATH 340, Calculus for Business and Economics, OR MATH 342, Modern Business Mathematics	3
Total Units Required	**27-28**

Suggested Electives
BUS 340, CISA 320, CISA 340.

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.

Bookkeeping and Office Management

Associate in Science Degree
Career Certificate

Career Opportunities: The Bookkeeping and Office Management curriculum provides education for employment in all sizes and types of business firms including government agencies. Students should have an aptitude for conceptual understanding as well as computational work and be willing to undertake the intensive study necessary for success. Many courses are available in a nine-week format.

Required Program

Business Core	**Units**
ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4
BUSTEC 300, Beginning Keyboarding/Applications (module 2)	1
BUS 300, Introduction to Business	3
BUS 106, Business Mathematics, OR ECON 310, Economic Statistics	3
CISC 300, Computer Familiarization	1
Total Core Units	**10-12**

Concentration Requirements

ACCT 301, Financial Accounting	4
BUS 310, Business Communications	3
BUS 100, Business English	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.

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

Bookkeeping - Junior Entry Level

Career Certificate

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

Required Program	**Units**
ACCT 101, Fundamentals of Accounting and Recordkeeping	3
ACCT 301, Financial Accounting	4
ACCT 341, Accounting on the Microcomputer	2
BUS 300, Introduction to Business	3
BUS 106, Business Mathematics	3
CISC 300, Computer Familiarization	1
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
Total Units Required	**19**

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

Bookkeeping - Senior Entry Level

Career Certificate

Completion of the requirements for the Career Certificate will provide the skills necessary for an entry-level bookkeeping job. It will also provide adequate awareness of where and how the bookkeeper's job fits within the organization's goals and objectives. It will also provide the opportunity for more rapid advancement within the bookkeeping/accounting department than the Junior Level Certificate. Many courses are available in a nine-week format.

Required Program	**Units**
Fulfill the Bookkeeping Career Certificate - Junior Entry-Level Courses:	
ACCT 101, Fundamentals of Accounting and Recordkeeping	3
ACCT 301, Financial Accounting	4
ACCT 341, Accounting on the Microcomputer	2
BUS 300, Introduction to Business	3
BUS 106, Business Mathematics	3
CISC 300, Computer Familiarization	1
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
Plus the following courses:	
ACCT 311, Managerial Accounting	4
ACCT 103, Intermediate Accounting - Part I	3
BUS 310, Business Communications	3
CISA 311, Intermediate Electronic Spreadsheets	1
Total Units Required	**30**

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

Business - Management

Associate in Science Degree
Career Certificate

This program is designed for those who wish to progress to positions of responsibility in the field from entry-level positions in management and related business areas. This curriculum has a two-fold purpose: (1) to assist students in becoming desirable beginning employees; and, (2) to help students acquire the knowledge, skill, and understanding needed as preparation for positions in management.

Required Program

Business Core	**Units**
ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4
BUSTEC 300, Beginning Keyboarding/Applications (module 2)	1
BUS 300, Introduction to Business	3
BUS 106, Business Mathematics or ECON 310, Economic Statistics	3
CISC 300, Computer Familiarization	1
Total Core Units	**11-12**

Plus any nine (9) units from the following:

BUS 345, Law & Society, or BUS 340, Business Law	3
BUS 100, Business English	3
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Data Base Management	1
ECON 100, Introduction to Economics	3
ECON 302, Principles of Macroeconomics	3
Subtotal Units	**20-21**

Concentration Requirements:

BUS 330, Managing Diversity in the Workplace	3
MGMT 372, Human Relations and Organizational Behavior	3
MGMT 304, Introduction to Management Functions	3
MGMT 309, Introduction to Supervision	3
MGMT 134, Management Survival Skills	3

Plus any six (6) units from the following:

MGMT 306, Introduction to Public Administration	3
MGMT 308, Personnel and Human Resource Management	3
MKT 316, Public Relations	3
MGMT 390, Credit and Finance	3
MGMT 374, Social Responsibility and Ethics	3
Total Concentration	**21**
Total Units Required	**41-42**

Suggested Electives
ACCT 311, MKT 300, MKT 316, ECON 304, MGMT 307, 308, 201, 298.

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.

Career Certificate
A Career Certificate may be obtained by completing the concentration requirements (21 units) with grades of "C" or better.

Business, Retail Management

Career Certificate

A Retail Management Certificate will prepare students for entry into the exciting field of retailing. Students may choose from a variety of retail management careers, which may include: retail manager in clothing, furniture, grocery, jewelry, computers, books, office supplies, pets, dry cleaners, hair salons, health and fitness, and restaurants.

Required Program	**Units**
ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4
BUS 106, Business Mathematics	3
BUS 310, Business Communication, OR BUS 100, Business English	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 Resource Management	3
MGMT 372, Human Relations and Organizational Behavior	3
MKT 300, Principles of Marketing	3
MKT 312, Retailing	3
COMM 301, Public Speaking, OR COMM 321, Interpersonal Communication	3
Total Units Required	**30-31**

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

Small Business Management

Associate in Science Degree
Career Certificate

This program is designed for those who wish to progress from entry-level positions to positions in management. The curriculum has a two-fold purpose: 1) to introduce students to the principles of management, and 2) to help students acquire the knowledge, skill, and understanding they need as preparation for positions in management.

Required Program for the Degree

Business Core	**Units**
ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4
BUS 106, Business Mathematics, OR ECON 310, Economic Statistics	3
BUS 300, Introduction to Business	3
BUSTEC 300, Beginning Keyboarding/Applications (module 2)	1
CISC 300, Computer Familiarization	1
Total Core	**11-12**

Plus any nine (9) units from the following:

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

Subtotal Units 20-21

Concentration Requirements:

BUS 159, Customer Service Training 1
MKT 300, Principles of Marketing 3
MKT 310, Selling Professionally 3
MKT 314, Advertising 3
BUS 350, Small Business Management/Entrepreneurship 3

Plus any six (6) units from the following:

BUS 210, The Business Plan 1
BUS 212, Marketing for the Small Business 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

Total Concentration Units 19

Total Units Required 39-40

Suggested Electives
ACCT 341; BUS 320; MGMT 298, 309; MKT 312, 316, 330.

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.

Required Program for the Certificate Units

ACCT 101, Fundamentals of Accounting and Recordkeeping 3
BUS 300, Introduction to Business 3
BUS 350, Small Business Management/Entrepreneurship 3
MKT 300, Principles of Marketing 3

Plus any three (3) units from the following:

BUS 210, The Business Plan 1
BUS 212, Marketing for the Small Business 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
BUS 159, Customer Service Training 1

Plus any three (3) units from the following:

BUS 310, Business Communications 3
BUS 320, Personal Finance 3
MGMT 304, Introduction to Management Functions 3
MGMT 372, Human Relations and Organizational Behavior 3
MKT 314, Advertising 3
MKT 316, Public Relations 3
MKT 312, Retailing 3
MKT 330, Internet Marketing 3

Total Required for Certificate 18

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

Business - Marketing

Associate in Science Degree
Career Certificate

Marketing, General, Degree and Career Certificate
Marketing, Advertising, Degree

Career Opportunities: The marketing program is designed for those who wish to enter into the Marketing field and progress into positions of higher responsibility. This curriculum has a two-fold purpose: 1) to introduce students to the principles of marketing, and 2) to help students acquire the knowledge, skill, and understanding they need as preparation for positions in Marketing.

Required Program

Business Core: Units

ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting 3-4
BUS 106, Business Mathematics, or ECON 310, Economic Statistics 3
BUS 300, Introduction to Business 3
BUSTEC 300, Beginning Keyboarding /Applications (module 2) .. 1
CISC 300, Computer Familiarization 1

Total Core Units 11-12

Plus any nine (9) units from the following:

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

Subtotal Units 20-21

Concentration Requirements:

MKT 300, Principles of Marketing 3
MKT 310, Selling Professionally 3
MKT 314, Advertising 3

Plus any nine (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

Total Concentration Units 18

Total Units Required 38-39

Suggested Electives
BUS 212; MKT 316, 498; WEXP 298.

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.

Business - Marketing

Career Certificate

A Marketing Career Certificate will provide a general concentration covering all aspects of marketing. Students will gain skills that will prepare them for a successful career in marketing. Marketing is a dynamic area of study that includes a variety of career opportunities, which include advertising, selling, entrepreneur, retailing, marketing services, public relations, and marketing management.

Required Program **Units**

Select Twelve (12) units from the following courses:

BUS 300, Introduction to Business 3
MKT 310, Selling Professionally 3
MKT 314, Advertising 3
MKT 300, Principles of Marketing 3
MGMT 372, Human Relations and Organizational Behavior, OR
MGMT 304, Introduction to Management Functions 3

Select six (6) units from the following courses:

MKT 312, Retailing 3
MKT 316, Public Relations 3
MKT 330, Internet Marketing 3
BUS 210, The Business Plan 1
BUS 212, Marketing for the Small Business 1

Total Units Required 21

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

Business - Marketing, Advertising

Associate in Science Degree

This program provides the knowledge and skills necessary for advertising work with print media electronic and broadcast media, retail and general business organizations and advertising agencies.

Required Program

Business Core: **Units**

ACCT 101, Fundamentals of Accounting and Recordkeeping, OR
ACCT 301, Financial Accounting 3-4
BUS 106, Business Mathematics or
ECON 310, Economic Statistics 3
BUS 300, Introduction to Business 3
BUSTEC 300, Beginning Keyboarding/Applications (module 2) ... 1
CISC 300, Computer Familiarization 1

Total Core Units 11-12

Plus any nine (9) units from the following:

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

Subtotal Units 20-21

Concentration Requirements

MKT 300, Principles of Marketing 3
MKT 310, Selling Professionally 3
MKT 314, Advertising 3

Plus any nine (9) units from the following:

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, Introduction to Printing Processes 3
GCOM 310, Beginning PageMaker 3
GCOM 311, Advanced PageMaker 3
MKT 316, Public Relations 3
MKT 330, Internet Marketing 3
PHOTO 301, Beginning Photography 3

Total Concentration Units 18

Total Units Required 38-39

Electives
BUS 212, 310; WEXP 298.

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.

Business - Office Administration

Associate in Science Degree

Career Certificate

Clerical General Office, Career Certificate, Level A

Introduction to Computerized Office Technologies, Career Certificate, Level B

Business Operations and Management Technology, Career Certificate, Level C

Capstone Office Simulation with an Internship, Degree and Career Certificate, Level D

The Office Administration Program offers program options with Career Certificates in progressively responsible levels in the related career path. Many courses are available in a nine-week format.

Office Administration

Clerical General Office
Career Certificate, Level A

Career Opportunities: This program is designed for students who are interested in working in a business office. Students will receive classroom instruction that will equip them to be successful in an office environment, followed by on-the-job work experience. After completion of this career certificate, possible job opportunities will be: Office Assistant, General Clerical, Office Clerk, and Information Clerk. Many courses are available in a nine-week format.

CISC 300, Computer Familiarization, OR	1
CISC 310, Introduction to Computer Information Science	3
BUS 106, Business Mathematics	3
BUS 310, Business Communication	3
BUS 100, Business English	3
BUSTEC 100, Keyboarding Skills, OR	
BUSTEC 300, Beginning Keyboarding/Applications	1
BUSTEC 110, Administrative Procedures	3
COMM 321, Interpersonal Communication	3
BUS 498, Work Experience in Business	1
Total	**18-20**

Introduction to Computerized Office Technologies

Career Certificate, Level B

Career Opportunities: This program prepares students for employment as Information Clerk, File Clerk, Receptionist, and General Office Clerk. Many courses are available in a nine-week format.

Required Program

Office Administration Core:	**Units**
BUSTEC 300, Beginning Keyboarding/Applications	3
BUS 310, Business Communications	3
BUS 100, Business English	3
BUS 106, Business Mathematics	3
Total Core Units	**12**

Concentration Requirements:

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 110, Administrative Procedures	3
ACCT 101, Fundamentals of Accounting and Recordkeeping	3
Total Concentration Units	**13**
Total Units Required	**25**

Suggested Electives
BUSTEC 100, CISA 306, 311, 321, 340; WEXP 198 or 298, RE 300, MKT 316.

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

Office Administration

Business Operations and Management Technology

Career Certificate, Level C

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

Required Program

Office Administration Core:	**Units**
BUSTEC 300, Beginning Keyboarding/Applications	3
BUS 310, Business Communications	3
BUS 100, Business English	3
BUS 106, Business Mathematics	3
Total Core Units	**12**

Concentration Requirements:

CISC 300, Computer Familiarization	1
CISA 306, Intermediate Word Processing	2
CISA 311, Intermediate Electronic Spreadsheets	1
CISA 320, Introduction to Database Management	1
CISC 320, Beginning Operating Systems (Windows)	1
BUSTEC 115, Records Management	2
BUSTEC 110, Administrative Procedures	3
ACCT 101, Fundamentals of Accounting and Recordkeeping	3
MGMT 372, Human Relations and Organizational Behavior, OR MGMT 304, Introduction to Management Functions	3
Total Concentration Units	**17**
Total Units Required	**29**

Suggested Electives
MKT 300, CISA 321, 340, CISC 305, 306, 321; WEXP 198 or 298; MKT 316.

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

Office Administration

Capstone Office Simulation with an Internship

Associate in Science Degree

Career Certificate, Level D

Career Opportunities: This program prepares students for employment as Administrative Assistant, Office Supervisor, Secretary, and Administrative Support Supervisor.

Required Program

Office Administration Core:	**Units**
BUSTEC 300, Beginning Keyboarding/Applications	3
BUS 310, Business Communications	3
BUS 100, Business English	3
BUS 106, Business Mathematics	3
Total Core Units	**12**

Concentration Requirements:	**Units**
CISA 340, Presentation Graphics	1
BUSTEC 115, Records Management	2
BUSTEC 330, Integrated Business Projects	4
ACCT 101, Fundamentals of Accounting and Recordkeeping	3
MGMT 304, Introduction to Management Functions, OR MGMT 372, Human Relations and Organizational Behavior	3
WEXP 298, Work Experience in Business related to Certificate or Degree	2
Total Concentration Units	**15**
Total Units Required	**27**

Suggested Electives
CISA 321, CISC 306, 351; MKT 316.

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

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

Business - Real Estate

Associate in Science Degree
Career Certificate

This program provides career opportunities and licensing in the field of Real Estate with concentrations in sales, brokering, appraising, and lending.

Required Program

ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4
BUSTEC 300, Beginning Keyboarding /Applications (module 2), OR competency exam (module 2)	1
BUS 106, Business Mathematics, OR ECON 310, Economics Statistics	3
BUS 300, Introduction to Business	3
CISC 300, Computer Familiarization	1
Total Core Units	**10-12**

Concentration Requirements:

RE 300, California Real Estate Principles	3
RE 330, Legal Aspects of Real Estate	3
RE 310, Real Estate Practice	3
RE 320, Real Estate Finance	3
RE 342, Real Estate Appraisal	4
RE 360, Real Estate Economics	3

Plus any six (6) units from the following:	**Units**
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, Real Estate Internship	4
Total Concentration Units	**25**
Total Units Required	**37-38**

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.

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

Business (BUS)

BUS 100 Business English 3 Units
Formerly: BUS 50

Prerequisite: ENGWR 50 and ENGRD 110 both with grades of "C" or better, or ESLW 320 and ESLR 320 both with grades of "C" or better.
54 hours Lecture
This course teaches the use of standard English to facilitate communication within the business environment. The emphasis is placed on sentence structure, word usage, punctuation, spelling, and business vocabulary. Reading, writing, and analyzing various business documents are stressed throughout the semester to ensure that the students will have a comprehensive understanding of how to use the various components of standard English grammar.

BUS 106 Business Mathematics 1-3 Units
Formerly: BUS 60

Prerequisite: None
Advisory: MATH 27
54 hours Lecture
This variable unit, self-paced course with instructor lecture develops essential skills to help students handle business and consumer math issues. It builds awareness and confidence in fractions, decimals, percents, interest, merchandise markups and markdowns, interpretation of charts, problem-solving, personal finance, elementary statistics, and accounting concepts. Students may enroll in this open entry course through the twelfth week of the semester subject to seating availability. It is recommended for every major in Business. Credit is granted based on the number of modules successfully completed. Business 106 is strongly recommended prior to enrolling in ACCT 301, ACCT 101, ECON 302 and ECON 310.

BUS 159 Customer Service Training 1 Unit
Formerly: BUS 86B

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 310
18 hours Lecture
This course examines the principles involved in building an effective customer service team. Specific topics include general responsibilities of the customer service representative and how to move toward improving performance

BUS 205 Entrepreneurship Quick Start 7 Units
Formerly: BUS 91

Prerequisite: None
128 hours Lecture
The Entrepreneurship Quick Start program is an intensive eight week retraining program targeting professionals who want to open their own successful businesses. The course teaches entrepreneurs how to develop a marketing plan, a strategic plan, a general business plan, an accounting system, and a logo design; how to understand state and federal procurement procedures; and how to obtain the necessary licensing to do business.

BUS 210 The Business Plan 1 Unit
Formerly: BUS 71A

Prerequisite: None
18 hours Lecture
This course offers an organized, step-by-step approach to preparing a business plan. The plan will enable you to solve problems "on paper" before they become operational/money problems. Every business should have a business plan. You will create yours in this course.

BUS 212 Marketing for Small Businesses 1 Unit
Formerly: BUS 71B

Prerequisite: None
18 hours Lecture
This course emphasizes how a small business or non-profit organization can market its service or product to the consumer. The student will learn about ways to improve market mix, identify target markets, and develop a marketing plan.

BUS 214 Financing a Small Business 1 Unit
Formerly: BUS 71C

Prerequisite: None
18 hours Lecture
This course covers sources and ways of raising capital for small businesses. How much money is needed and where it can be obtained, start-up costs, and projecting monthly and yearly costs are the focus of this course. Financial ratios and key financial statements are covered.

BUS 216 Essential Records for the Small Business 1 Unit
Formerly: BUS 71D

Prerequisite: None
18 hours Lecture
This course emphasizes the various types of records that small businesses must keep. The focus will be upon financial, employment, and tax records. Simple, easy-to-use recordkeeping systems will be covered.

BUS 218 Management Skills for the Small Business 1 Unit
Formerly: BUS 71E

Prerequisite: None
18 hours Lecture
A small business owner must understand and motivate others to help the business reach its objectives. This course covers such functions as planning and organizing work flow, delegating responsibilities, understanding leadership styles, decision making, stress and time management, and working with employee organizations.

BUS 220 Retailing and Merchandising for the Small Business 1 Unit
Formerly: BUS 71F

Prerequisite: None
18 hours Lecture
This course will emphasize retailing concepts, such as inventory control and turnover rates, selecting merchandise sources, using

trade and cash discounts, pricing, markup and markdown, and shrinkage control. Students will also learn how to develop a merchandising plan, inventory control system, and assess consumer behavior and demographics.

BUS 294 Topics in Business .5-4 Units

Formerly: BUS 80

Prerequisite: None
54 hours Lecture
Short course of varying duration of 9-54 hours on specialized topics of business. Content will differ each time course is offered. Objective is to focus on issues of significance at the time of offering. This course may be taken four times for credit providing there is no duplication of topics.

BUS 300 Introduction to Business 3 Units

Formerly: BUS 20

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ESLW 310, or BUS 310.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
For anyone considering a career in business, or a business venture, this course provides an overview of the business operation and the skills required for success. It covers the operations of business, business organization and management, finance, marketing, labor-management relations and government regulations, accounting, computers, e-commerce, and management information systems.

BUS 310 Business Communications 3 Units

Formerly: BUS 8

Prerequisite: BUS 100 with a grade of "C" or better, and completion of one unit of BUSTEC 100 or BUSTEC 300 at 28+ net words per minute, or equivalent.
General Education: AA/AS Area D1 and writing competency
Acceptable for credit: CSU
54 hours Lecture
This course is designed to emphasize the use of effective communication within the global business environment. It covers the psychology, principles, and methods used in the process of applying standard English to communicate. The problem solving approach is used to plan and compose effective business documents in which style, appearance, tone, vocabulary, grammar, punctuation, and reader appeal are stressed for effective oral and written communication. Organizational communication is emphasized. A 1000-word keyed research paper will be required.

BUS 320 Concepts in Personal Finance 3 Units (same as FCS 304)

Formerly: BUS 14

Prerequisite: None
Advisory: Eligibility for ENGWR 100, or ESLW 310, or BUS 310.
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course is designed to assist individuals to analyze their financial affairs. Elements and conceptual basis of financial planning analysis, and decision making in areas of budgeting, taxes, borrowing, money management, insurance, investments, and retirement will be examined with an emphasis on principles to develop students' economic decision making. This course meets the "Living Skills" graduation requirement.

BUS 330 Managing Diversity in the Workplace 3 Units

Formerly: BUS 15

Prerequisite: None
General Education: AA/AS Area F
Acceptable for credit: CSU
54 hours Lecture
The course examines the leadership skills and abilities needed to manage a multicultural workforce. A primary focus is placed upon the workplace impact of various historical, social, and cultural experiences/perspectives related to gender, age, ethnicity, and disability. Workforce issues related to the diversity of the American consumer and global consumer impact on the United States are analyzed.

BUS 340 Business Law 3 Units

Formerly: BUS 18A

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
This course covers law and its relationship to the environment of business. Included is an introduction to the American legal system as an instrument of economic, social, and political control. Other areas studied include: sources and processes of law, contracts and sales, agency, business organizations, ethics, and the regulatory process.

BUS 343 Computers, Data Processing and the Law 3 Units

Formerly: BUS 17

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to legal ramifications of computers and data processing as it relates to the study of these areas specifically and business generally.

BUS 345 Law and Society 3 Units

Formerly: BUS 16

Prerequisite: None
Acceptable for credit: UC (BUS 345 or PHIL 368 or 482, maximum one course)/CSU
54 hours Lecture
This course benefits every student in every major by making them aware of their rights and obligations under the law. They will be introduced to the American common law system, with emphasis on the practical aspects, as well as theory behind the law, and on the law as a reflection of society. Areas studied include the U.S. Constitution, the Court and legal systems, law of Crimes, Torts, Contracts, Landlord-Tenant Relationships, Employment and Family Law. This course is not to be taken in place of Business 340, Business Law, where required.

BUS 350 Small Business Management/Entrepreneurship 3 Units

Formerly: BUS 200, BUS 70

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This class cover the various elements in starting and operating a small business. Students will learn to develop a business plan, find financial resources, meet legal requirements, develop management techniques, understand marketing concepts, and other topics of interest to the small business entrepreneur.

BUS 498 Work Experience in Business 1-4 Units

Formerly: BUS 98

Prerequisite: None
Corequisite: Students must have either a job or an established internship.
General Education: AA/AS Area E
Acceptable for credit: CSU
18 hours Lecture; 300 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area of Business course content. It will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V papers (the student's Application, Learning Objectives, Timesheet, and Evaluations) which document the students' progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies as well as local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be repeated when there is new or expanding learning on the job for 1-4 units, repeatable for up to 16 units. In addition the student and the Work Experience instructor may tailor the course to meet the student's specific professional needs, as related to the Business major, by identifying 1-5 workshops, trainings, or conferences that the student may attend as part of the curriculum of the Work Experience class in BUS 498.

Business Technology (BUSTEC)

BUSTEC 100 Keyboarding Skills 1-3 Units

Formerly: BUS 55

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 50.
36 hours Lecture; 54 hours Laboratory
This computer skill building course is open to students who desire to learn the keyboard, and build speed and accuracy. Individualized skill improvement plans are based on a computerized assessment of keyboarding speed and accuracy. This course is a credit/no credit course. Students will earn a unit of credit for each module successfully completed.

BUSTEC 110 Administrative Procedures 3 Units

Formerly: BUS 58

Prerequisite: None
Advisory: BUS 100, BUSTEC 115, Module 2 of BUSTEC 300, CISA 305, CISA 310, and CISA 320; all with grades of "C" or better.
54 hours Lecture
This capstone course prepares students to perform many different 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 will provide the background for advancement to supervision and management positions. Primary emphasis is on processing documents using introductory skills in word processing, spreadsheets, presentation graphics, database and e-mail. Also included are managing information storage and retrieval, and coordinating office communications, to improve the efficiency of office functions.

BUSTEC 115 Records Management 2 Units

Formerly: BUS 51

Prerequisite: None
36 hours Lecture
This course offers an introduction to the field of records and information management. It introduces students to filing rules compatible with the Association of Records Managers and Administrators (ARMA) guidelines. Principles and practices of effective records management for filing and maintenance of paper, image, and electronic records are included. Requisition/charge-out and transfer procedures along with legal and ethical issues in the records management field are covered.

BUSTEC 300 Beginning Keyboarding/ Applications 1-3 Units

Formerly: BUS 1

Prerequisite: None
Advisory: ENGRD 110 and ENGWR 50.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course builds speed and accuracy using the touch method. Module 1 (1 unit) introduces or reviews the keyboard by touch. Module 2 (1 unit) and Module 3 (1 unit) cover the preparation of

business documents using word processing. Grammar, spelling, and punctuation are reinforced throughout the program. Students will earn a unit of credit for each module successfully completed.

BUSTEC 330 Computerized Integrated Business Projects **4 Units**

Formerly: BUS 40

Prerequisite: BUSTEC 110 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course builds upon previous training in computer applications and completes the training necessary for the student to perform effectively and become a skilled employee in the modern, computerized office. This course will be centered around a variety of simulated office situations. Topics covered will include the creation of documents using integrated software applications and accessing the Internet for research and document preparation purposes.

Management (MGMT)

MGMT 134 Management Survival Skills **3 Units**

Formerly: MGMT 84

Prerequisite: None
Advisory: Students will benefit more from this course after completing MGMT 309, 343, and 372.
54 hours Lecture
Becoming a manager is one challenge. Surviving as a manager is a greater one. This class provides students with the necessary management skills. Through dynamic exercises, discussions and learning events, every student taking this class will learn skills in conducting effective meetings, self management, time management, problem solving, stress management, negotiation, presentation, project management, critical thinking, budgeting, forecasting, using the computer to manage information, controlling costs, and personal career development.

MGMT 152 Contemporary Industry Management **3 Units**

Formerly: MGMT 71

Prerequisite: None
54 hours Lecture
Contemporary industrial organizations have many differences with those of the past. This course provides a basis for developing and utilizing policy and procedure formulation, space utilization, methods improvement and development, efficiency and effectiveness improvement, procurement and material control practices, inventory control and measurement, standards development, and management information systems. Cost, quality assurance, and time management effectiveness are also included. The ultimate goal of the course is to increase management knowledge and ability to choose effective management methods.

MGMT 172 Leadership/Supervisory Skills **1 Unit**

Formerly: MGMT 89

Prerequisite: Eligibility for ENGWR 100 and ESLW 310.
18 hours Lecture
This course provides an overview of supervision principles and skills and qualities necessary to become an effective supervisor. The course covers various methods for completing such supervisory tasks as delegating work, evaluating work flow, and appraising employee performance. Some introductory material on coaching, motivating, and managing teams is also included.

MGMT 304 Introduction to Management Functions **3 Units**

Formerly: MGMT 19

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a basic course in management introducing a variety of modern management concepts. This course includes the basic management functions of planning, organization, staffing, leadership, and control. In addition, such concepts as team development, communication, business ethics, and global management perspectives will be discussed.

MGMT 306 Introduction to Public Administration **3 Units**

Formerly: MGMT 20

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a study of the fundamental principles of administration and their application to governmental and public sector operations. It acquaints students with the politics of administration, administrative responsibility, the management activities of planning, organizing, directing and controlling, and program implementation. Administration at the state and local government level, as well as in other public sector operations such as hospitals, schools and the military, is included.

MGMT 307 Introduction to Public Personnel Administration **3 Units**

Formerly: MGMT 22

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ESLW 340, or BUS 100.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to the complex study and analysis of such areas as civil rights, labor law, the human resources organization and various management theories currently found in both public and private sector organizations.

MGMT 308 Personnel and Human Resources Management **3 Units**

Formerly: MGMT 170, MGMT 82

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course deals with the functions of management: planning,

organizing, staffing, directing, and controlling in a decision-making context.

MGMT 309 Introduction to Supervision 3 Units
Formerly: MGMT 81

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Employee motivation, morale, working conditions. Communications with employee groups, counseling and interviewing workers, group dynamics. Case studies from business.

MGMT 372 Human Relations and Organizational Behavior 3 Units
Formerly: MGMT 23

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course emphasizes the psychology of human relations management. It covers human interaction principles that build confidence, competence, and positive attitudes in work organizations. Topics include the basis for human behavior, perception, communication, motivation, performance improvement, group behavior, ethics, and social responsibility.

MGMT 374 Social Responsibility and Ethics in Management 3 Units
Formerly: MGMT 87

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course deals with State and Federal laws, court decisions having effect on employer selection, retention and advancement practices. Equal employment opportunity-affirmative action programs, fair employment testing, cultural awareness training, women's rights in employment, minority group relations, community involvement and inter-employer cooperation.

MGMT 390 Credit and Finance 3 Units
Formerly: MGMT 86

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Problems and practices in modern credit and financial management, responsibilities of the credit and finance departments, relationship of credit and finance to other phases of business, sources and use of funds in business, retail credit, including investigation, credit granting, credit limits, and collection policies.

Marketing (MKT)

MKT 300 Principles of Marketing 3 Units
Formerly: MKT 20

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides a general overview of marketing principles. The course covers the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational goals. Elements of the marketing environment such as government regulation, environmental protection, competition, and consumer behavior will be analyzed.

MKT 310 Selling Professionally 3 Units
Formerly: BUS 120

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will examine and present the qualifications necessary to achieve success in professional selling. Emphasis will be placed on the development of a business personality and its application to prospecting, structuring the sales presentation, handling objections, closing, servicing, and customer relationship management. Application of techniques in product and service situations and integration of technology as a sales tool will be explored. Different types of selling experiences such as direct, industrial, wholesale, and retail are covered. Students will participate in role-playing exercises and deliver a sales presentation. This course is recommended for all students entering any career in business.

MKT 312 Retailing 3 Units
Formerly: MKT 24

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Retailing is a business that provides goods and services to customers for their personal use. This course will study modern retail operations with emphasis on consumer behavior, store location, sourcing of goods, pricing, organization, promotion, merchandising, management, and other pertinent factors of retail operations.

MKT 314 Advertising 3 Units
Formerly: BUS 130

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course examines advertising as a marketing communications tool. Emphasis will be placed on consumer behavior, creative methods, media selection, measurements of effectiveness, and coordination with other aspects of the marketing program.

MKT 316 Public Relations 3 Units

Formerly: MGMT 380, MGMT 85

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course covers the role of public relations in business and marketing. It introduces students to the roles and responsibilities of the public relations professional and the skills needed for success. Students will examine the functions of public relations, including crisis management, issue management, and building and managing the image of an organization and its products and services.

MKT 330 Internet Marketing 3 Units

Advisory: CISC 305 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course introduces students to the current state of the art in e-business, with an emphasis on the theory and practice of marketing in an electronic environment. Students will learn how to use the personalization and interactivity of the Internet to build strong customer relationships. These concepts will be applied to traditional brick and mortar as well as exclusively online businesses.

Real Estate (RE)

RE 300 California Real Estate Principles 3 Units

Formerly: RE 19

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a fundamental real estate course covering the basic laws and principles of California real estate, and provides an understanding, background, and the terminology necessary for advanced study in specialized real estate courses. This course is required by the California Department of Real Estate prior to taking the real estate salesperson's examination.

RE 310 Real Estate Practice 3 Units

Formerly: RE 82

Prerequisite: None
Advisory: RE 300.
Acceptable for credit: CSU
54 hours Lecture
This course covers operations in real estate: listing, prospecting, advertising, financing, sales techniques, escrow and ethics. It applies toward educational requirements for broker's examination.

RE 320 Real Estate Finance 3 Units

Formerly: RE 83

Prerequisite: None
Advisory: Real Estate 300.
Acceptable for credit: CSU
54 hours Lecture
This course covers Real Estate financing; lending policies and problems. Financing transactions in residential, apartment, commercial, and special purpose properties. Methods of financing properties are also covered. Applies toward educational requirements for broker's examination.

RE 330 Legal Aspects of Real Estate 3 Units

Formerly: RE 81

Prerequisite: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers California real estate law, including management, agency contracts, and application to real estate transfer, conveyancing, probate proceedings, trust deeds, and foreclosure. Legislation governing real estate transactions is also covered. It applies toward educational requirements for broker's examination.

RE 342 Real Estate Appraisal 4 Units

Formerly: RE 84

Prerequisite: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
72 hours Lecture
This course provides entry level skills in the real estate appraisal field. Concentrating on the residential appraisal, the course will cover the purpose of the appraisal, the appraisal process, approaches, methods, and techniques. The course applies toward educational requirements for broker's exam and meets Office of Real Estate Appraisers 15 hour ethics requirement.

RE 344 Advanced Appraisals 3 Units

Formerly: RE 94

Prerequisite: RE 342 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers appraisal of income property. Emphasis is on market and income analysis, capitalization, techniques, rate derivation, compound interest tables, cost and sales comparison and appraisal of specific income properties. Applies toward educational requirements for broker's examination.

RE 350 Real Property Management 3 Units

Formerly: RE 95

Prerequisite: None
Advisory: RE 300.
Acceptable for credit: CSU
54 hours Lecture
This course covers operation and management of real property marketing procedures, leases, maintenance, insurance, accounting, records, public and human relations, employer responsibilities, selection of personnel and agreements. It applies toward educational requirements for broker's examination.

RE 360 Real Estate Economics 3 Units

Formerly: RE 85

Prerequisite: RE 310 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers the nature and classification of land economics; development of property; construction and subdivision, economic values and real estate evaluation. Real estate cycles and business fluctuations, residential market trends, real property and special purpose property trends are also covered. This course applies toward educational requirements for broker's examination.

RE 497 Internship in Real Estate 4 Units

Prerequisite: RE 300 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 162 hours Laboratory
This course provides students with a supervised, structured, hands-on experience in real estate and with the skills necessary to assist them in obtaining a job in the real estate industry. Course content will include understanding the application of education to the workforce; the responsibilities of an internship; completion of Title V papers (the student's application, Learning Objectives; Time sheet, and Evaluations) which document the students' progress and hours completion; and developing workplace skills identified by local employers. In addition to 18 hours of lecture, the student is required to complete an internship of 162 hours.

Chemistry CHEM

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

Chemists work as pharmaceutical or environmental chemists, educators, medical researchers, quality assurance and general scientists, and pharmacists. The preparation received in chemistry is excellent background for careers in medicine, dentistry, engineering, the biological sciences, earth sciences, and science education.

This major is designed to meet some of the common lower-division requirements for a major in Chemistry.

Required Program	Units
CHEM 400, General Chemistry	5
CHEM 401, General Chemistry	5
CHEM 420, Organic Chemistry, AND	5
CHEM 421, Organic Chemistry	5
OR	
CHEM 425, Organic Chemistry with Biological Emphasis, AND	4
CHEM 426, Organic Chemistry with Biological Emphasis	4
Total Units Required	**18-20**

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

Associate in Science (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.

Chemistry (CHEM)

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

CHEM 110 Preparatory Chemistry 2 Units

Formerly: CHEM 41

Prerequisite: None
36 hours Lecture
This is a lecture course which covers the most fundamental concepts of chemistry. The course teaches chemical problem solving and writing skills. This course is intended primarily to prepare students for UCD's Chemistry 2A, but also partly fulfills the SCC natural science requirement for the AA degree.

CHEM 300 Beginning Chemistry 4 Units

Formerly: CHEM 51

Prerequisite: None
Advisory: Concurrent enrollment in CHEM 317.
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after CHEM 400; CHEM 300 or 305 or 330, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
This is a lecture and laboratory course that covers the fundamental concepts of chemistry. This course assumes no previous knowledge of chemistry and teaches both chemical problem solving and laboratory skills. This course is intended primarily to prepare students for CHEM 400, but also fulfills the lower division lab science requirements for transfer students.

CHEM 305 Introduction to Chemistry 5 Units

Formerly: CHEM 2A

Prerequisite: MATH 100, Beginning Algebra, or equivalent with a grade of "C" or better.
Advisory: ENGRD 310 and ENGWR 100.
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit is taken after CHEM 400; CHEM 300 or 305 or 330, maximum one course; CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
72 hours Lecture; 54 hours Laboratory
This course presents principles of chemistry and scientific method, including a brief introduction to organic chemistry. It is primarily designed to meet general education requirements and for majors in nursing, home economics, natural resources or physical education.

CHEM 306 Introduction to Chemistry 5 Units

Formerly: CHEM 2B

Prerequisite: CHEM 305 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
72 hours Lecture; 54 hours Laboratory
CHEM 306 is a continuation of CHEM 305. This course covers the organic functional groups and reactions involved in the mechanisms of the chemistry of life processes (biochemistry) particularly as applied to the health sciences.

CHEM 317 Strategies for Problem Solving in Chemistry 1 Unit

Formerly: CHEM 45

Prerequisite: None
Advisory: Students should be concurrently enrolled in CHEM 300, CHEM 306, CHEM 420, or CHEM 425 to be enrolled in CHEM 317.
Acceptable for credit: CSU
18 hours Lecture
This course will focus on developing analytical reasoning strategies, critical thinking skills and problem solving abilities for both quantitative and qualitative problems in chemistry. The course is designed to support students in beginning chemistry, (CHEM 300), 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). Strategies and content will be specific to the area of chemistry. This course may be repeated up to three times for credit providing there is no duplication of content.

CHEM 320 Environmental Chemistry 4 Units

Formerly: CHEM 7

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course explores the interrelationship of human beings and their living and nonliving environments with regards to the chemical substances that are encountered in everyday life. The role of chemistry in both creating the environmental problems as well as providing solutions will be examined. At the conclusion of the course, the student will be able to use everyday tools in understanding and dealing with environmental problems and become a more critical thinking consumer of products affecting the environment. The laboratory is designed to familiarize students with the methods of science while investigating the presence and interaction of chemicals in the environment.

CHEM 330 Chemistry of the World 3 Units

Formerly: CHEM 10

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after CHEM 400; CHEM 300 or 305 or 330, maximum one course)/CSU
54 hours Lecture
This is a lecture course covering the basic principles of chemistry with an emphasis on the social, industrial and biological aspects of chemistry. It is designed for students desiring a general knowledge of chemistry and the importance of science in everyday life. An optional laboratory course, CHEM 331, may accompany this lecture course.

CHEM 331 Laboratory for Chemistry of the World 1 Unit

Formerly: CHEM 13

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Laboratory
This is the optional laboratory to accompany CHEM 330. The laboratory gives students practical experience working with chemicals,

glassware, and instruments. It is designed for students desiring a general knowledge of chemistry and the importance of science in every day life. It will be especially useful as a continuing education course for elementary and middle school teachers.

CHEM 336 Art and Chemistry 4 Units

Formerly: CHEM 14

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an exploration of the chemistry of art and art media. Students will investigate through a variety of lecture, laboratory, and studio activities the scientific basis of paints, dyes, photography, fresco, metalworking, fabric, polymers, glasswork, art preservation/restoration, art forgery, and chemical hazards in art. Chemical concepts such as the atomic nature of matter, molecules, elements, compounds, chemical bonding and interactions, acids and bases, solubility, spectroscopy, oxidation and reduction, and carbon chemistry will be discussed as they apply to the chemical nature of art. The weekly course format is three hours of lecture discussion and three hours of laboratory work as well as occasional field trips.

CHEM 400 General Chemistry 5 Units

Formerly: CHEM 1A

Prerequisite: Completion of high school chemistry, CHEM 300, OR CHEM 305 with a grade of "C" or better; completion of MATH 120, Intermediate Algebra, with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
54 hours Lecture; 72 hours Laboratory; 18 hours Discussion
CHEM 400 covers the fundamental principles and concepts of chemistry including reactions, stoichiometry, thermochemistry, atomic and molecular structure and bonding, gases, liquids, solids, and solutions. One hour per week will be devoted to discussion/problem session. Laboratory experiments are mostly quantitative, requiring good technique and critical thinking. CHEM 400 is for students in biology, chemistry, pre-dentistry, pre-medicine, pre-pharmacy, and engineering.

CHEM 401 General Chemistry 5 Units

Formerly: CHEM 1B

Prerequisite: CHEM 400 with a grade of "C" or better.
Advisory: Trigonometry and/or pre-calculus.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 305 and 306 or 400 and 401, maximum one series)/CSU
54 hours Lecture; 72 hours Laboratory; 18 hours Discussion
CHEM 401 is a continuation of CHEM 400. This course includes topics in kinetics, thermodynamics, gas-phase equilibrium, ionic equilibrium, electrochemistry, chemistry of coordination compounds, nuclear and beginning organic chemistry. Critical thinking and writing skills will be practiced in this course. One hour per week will be devoted to a discussion/problem solving session. CHEM 401 is for students in biology, chemistry, pre-dentistry, pre-medicine, pre-pharmacy, and engineering. The laboratory includes both quantitative and qualitative experiments and some qualitative analysis. Written laboratory reports are required. It is recommended that CHEM 400 and 401 be taken during consecutive semesters.

CHEM 410 Quantitative Analysis 5 Units

Formerly: CHEM 5

Prerequisite: CHEM 401 with a grade of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture; 108 hours Laboratory
This is a quantitative analysis course which emphasizes the theory and practice of gravimetric, volumetric, potentiometric, spectrophotometric and chromatographic methods of analysis. Students also calibrate laboratory glassware, keep detailed scientific notebooks, and learn techniques for the handling of data. This is a course for students planning careers in chemistry, biochemistry, chemical engineering, pre-pharmacy, molecular biology, and microbiology.

CHEM 420 Organic Chemistry 5 Units

Formerly: CHEM 12A

Prerequisite: CHEM 401 with a grade of "C" or better. (Concurrent enrollment in CHEM 400 or 401 is not allowed.)
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 108 hours Laboratory
This is a lecture-laboratory course designed to introduce students to the study of basic concepts of organic chemistry. Lecture topics include chemistry of alkanes/cycloalkanes, alkenes, alkyl halides, alcohols and ether with emphasis on stereochemistry, reaction mechanisms and spectroscopy. Laboratory work includes basic techniques of separation and identification. Computer-aid molecular modeling will be introduced. Students will be introduced to a variety of modern instrumentation (GC, HPLC, FT-IR, GC-MS) in the laboratory.

CHEM 421 Organic Chemistry 5 Units

Formerly: CHEM 12B

Prerequisite: CHEM 420 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 108 hours Laboratory
This course is a continuation of CHEM 420 with emphasis on the chemistry of aromatic and alkyl alcohols, carbonyl compounds, enolate condensation, amines, phenols, and selected biologically important compounds. The course also includes continued application of spectroscopic methods applied to organic chemistry. Laboratory emphasis is on the preparation, isolation, purification, identification and mechanism elucidation using both traditional and instrumental techniques.

CHEM 425 Organic Chemistry with Biological Emphasis 4 Units

Formerly: CHEM 9A

Prerequisite: Completion of CHEM 401 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 54 hours Laboratory
The CHEM 425, 426 series is designed to fulfill the requirements of students planning professional school studies in the health and biological sciences. It will also satisfy the needs of students majoring in the life sciences and related areas. This course is intended

for students not majoring in chemistry and not planning to take additional course in organic chemistry. Lecture topics include the preparation, properties, and reactions of alkanes, alkenes, alkynes, alkyl halides, alcohols, and ethers with emphasis on applications in the biological sciences. Also included is the study of stereoisomerism, mass spectrometry, and spectroscopy (UV/VIS and IR). Laboratory work covers standard laboratory practices including extraction, crystallization, distillation, chromatography (gas, thin layer, and column), polarimetery, organic synthesis, reaction analysis, and spectroscopy (IR) with emphasis on biological applications.

CHEM 426 Organic Chemistry with Biological Emphasis — 4 Units

Formerly: CHEM 9B

Prerequisite: Completion of CHEM 425 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC (CHEM 420 and 421 or 425 and 426, maximum one series)/CSU
54 hours Lecture; 54 hours Laboratory
This course, a continuation of CHEM 425, focuses on the preparation, properties, reactions, and spectroscopy (IR, NMR, and UV) of organic compounds, including benzene and benzene derivatives, aldehydes, ketones, §-dicarbonyl compounds, carboxylic acids, and amines. Applications in the biological sciences are emphasized. An introduction to the chemistry of biological macromolecule (lipids, carbohydrates, proteins, and nucleic acids) is also presented. Laboratory work includes qualitative analysis, multi-step organic synthesis, instrumentation (IR and GC), protein electrophoresis, and investigations in photochemistry, dyes, and biological macromolecules.

CHEM 484 Advanced General Chemistry - Honors — 1 Unit

Formerly: CHEM 4H

Prerequisite: CHEM 400 with a grade of "C" or better. Eligibility for admission to the Honors Program.
Acceptable for credit: UC/CSU
9 hours Lecture; 27 hours Laboratory
Honors Advanced General Chemistry provides advanced studies of chemical concepts introduced in CHEM 400 and related concepts, including advanced laboratory work. This honors course uses an intensive methodology designed to challenge motivated students.

CHEM 494 Topics in Chemistry — .5-4 Units

Formerly: CHEM 22

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science majors to learn about recent developments in chemistry. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.

CHEM 496 Teaching Assistant in Chemistry — 1-4 Units

Formerly: CHEM 46

Prerequisite: A grade of "B" or better in the course for which the student is going to be a teacher aide; consent of instructor and approval of division dean.
Acceptable for credit: CSU
27 hours Lecture; 81 hours Laboratory
This course is for student who want to develop an in-depth understanding of the fundamentals of chemistry and learn to work with individual and small groups of students.

Communication COMM
(Formerly Speech Communication)

Communication, Associate in Arts Degree

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 18a

916-558-2551

Recommended High School Preparation
Standard college preparatory program.

Program Information
The Communication Department offers a wide variety of classes designed to meet students needs for graduation, transfer, and personal and professional development. Classes provide students with communication skills for presentational speaking, critical thinking, relationship development, and professional growth. Emphasis is on the understanding and application of human communication.

Transfer
Classes provide a wide range of lower division transfer requirements for CSU and IGETC. Classes are designed to prepare students to transfer to a wide variety of majors including Business, Communication, Criminal Justice, Education, Liberal Arts, Pre Law, Mass Media, Management, Psychology, Sociology, and Social Work.

Career Opportunities
The number one skill employers seek is effective communication. Whether enhancing skills for promotion or preparing for a career, there are a variety of classes to enhance professional growth. This program provides preparation for employment in education, entertainment, law enforcement, law, health, management, organizational development, psychology, public service, sales, training and social services.

Forensics
Join the Los Rios Forensics team. The Forensics Team provides high level intercollegiate forensics competition through COMM 374. Participate in this award-winning team as they compete in debate, informative and public speaking, oral interpretation of literature/drama, impromptu speaking, and reader's theatre. Develop your critical thinking skills. Become a more competent speaker and polish the skills employers seek the most. Earn 1-3 transferable units.

Communication
Associate in Arts Degree

Recommended program for the major:

Required Program **Units**
Students must complete all of the following courses for a total of 12 units

COMM 301, Public Speaking. 3
COMM 311, Argumentation and Debate 3
COMM 321, Interpersonal Communication 3
COMM 331, Group Discussion 3

An additional six (6) units must be selected from the following courses (additional units from this category may be applied toward elective units):

COMM 315, Persuasion 3
COMM 374, Forensics Laboratory 3
COMM 325, Intercultural Communication 3
COMM 351, Mass Media and Society 3

Suggested Electives
The following courses are suggested electives that may meet general education requirements for the Associate Degree (check with your counselor regarding transfer and/or graduation requirements):

COMM 305, Oral Interpretation of Literature
COMM 345, Interviewing
COMM 335, Conflict Management
COMM 316, Advanced Argumentation
COMM 361, The Communication Experience

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.

Communication (COMM)

COMM 270 Communication Laboratory .5-3 Units

Formerly: COMM 45

Prerequisite: None
27-162 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction in basic oral communication skills. Individualized instructional modules are designed to help the student acquire or improve communication skills in specific areas. Course offerings vary, depending upon the students' needs and abilities. A partial list includes: Outlining a speech, Introductions, and Supporting Material. The course is graded credit/no credit. Students earn 0.5 units for every 27 hours completed. They may earn 0.5-3 units per semester and repeat this class until reaching the maximum of 6 units. Students may enroll until the end of the 12th week of instruction.

COMM 301 Introduction to Public Speaking3 Units

Formerly: COMM 1

Prerequisite: Eligibility for ENGRW 300.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course prepares students to speak in a variety of rhetorical situations: as college students, as employees, as opinion leaders in the community. The course is designed to assist students in developing ethical research methodology, analytical thinking skills, organization and outlining skills, effective delivery, and appropriate speech presentation skills. Emphasis is on researching, preparing, organizing, and presenting a variety of speeches for different audiences.

COMM 302 Persuasive Speech 3 Units

Formerly: COMM 2

Prerequisite: Eligibility for ENGWR 300; completion of COMM 301 with a grade of "C" or better.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to give students instruction and practice in designing and orally delivering persuasive messages. Emphasis is placed on use of proofs, language, logical thinking, and delivery. Students will prepare, present, and evaluate multiple types of persuasive speeches.

COMM 305 Oral Interpretation 3 Units

Formerly: COMM 5

Prerequisite: Completion of ENGWR 100 or ESLW 340 with a grade of "C or better, AND completion of ENGRD 310 or ESLR 340 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the field of performance studies through the oral interpretation of various literary forms, including Western and Non-Western forms of literature. Theoretical issues and historical developments are examined and applied to the current performance trends in solo, duo and interpreters' theatre. The focus is on audience analysis, selection and thematic analysis of literature, discussion and application of vocal and physiological delivery techniques, program performance, and post performance evaluation.

COMM 311 Argumentation and Debate 3 Units

Formerly: COMM 3

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the role of argument in public discourse. Students develop presentational skills necessary for public advocacy. Assignments include researching, preparing, and presenting sound arguments, as well as developing strategies for refuting others' arguments. Students will explore areas of social, economic, and political controversy through the format of academic debate.

COMM 315 Persuasion 3 Units

Formerly: COMM 18

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Areas D2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course presents fundamental theories and techniques of persuasion as they occur in various communication contexts, including commercial, interpersonal, public, and mass media. Students develop critical thinking skills by engaging in analysis, evaluation, and composition of persuasive messages and by examining the personal, political, cultural, and social impacts of persuasion. Students explore ethical considerations of persuasive communication; learn about types of reasoning, and identify fallacious arguments as they occur in persuasion.

COMM 316 Advanced Argumentation and Critical Thinking 3 Units

Formerly: COMM 33

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
The primary emphasis of this course is on argumentation as the study of analysis, evidence, reasoning, refutation and rebuttal, etc., in oral and written communication. Significant components of instruction will be in written argumentation, with special attention to the essay form. Students write a minimum of 8,000 words divided among at least five essays, all of which require research. Curriculum includes critical thinking approaches to commercial, legal, political, and academic argumentation and persuasion.

COMM 321 Interpersonal Communication 3 Units

Formerly: COMM 10

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course focuses on the exploration of communication skills associated with satisfying relationships. Through theory, discussion, simulations, and structured exercises, students will explore various approaches to successful communication in interpersonal contexts. This course strives to increase an individual's personal communication effectiveness through heightened awareness and greater skill as both a sender and receiver of shared messages.

COMM 323 Listening 3 Units

Formerly: COMM 6

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course focuses on the listener in communication. The student will learn about the variables in listening and will learn to listen for a variety of purposes, such as listening for helping others, listening for critical evaluation, listening for content and listening for aesthetic pleasure. The student will work for competence in listening skills in both formal and professional settings.

COMM 325 Intercultural Communication 3 Units

Formerly: COMM 14

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the challenges and promises of intercultural communication in U.S. domestic situations. Variations and commonalities in communication patterns across cultures are examined. Communication processes and outcomes between persons of different cultural backgrounds are also explored. Practical application of factors which influence communication between individuals of different cultures is emphasized.

COMM 328 Gender Communication 3 Units

Formerly: COMM 16

Prerequisite: None
Advisory: COMM 301, COMM 321, PSYC 300, or SOC 341.
General Education: AA/AS Areas B2, E2
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to gender-related communication. Verbal, nonverbal similarities and differences are examined within historical, social, psychological, and cultural perspectives.

COMM 331 Group Discussion 3 Units

Formerly: COMM 15

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to increase students' understanding of group communication and to prepare students to function more effectively in various types of groups. The course focuses primarily on communication in task and social groups, and assignments will include oral presentations (individual and/or group). The course addresses communication concepts and behaviors related to problem solving, decision-making, leadership, group roles, norms and conformity.

COMM 335 Conflict Management 3 Units

Formerly: COMM 22

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area E2
Acceptable for credit: CSU
54 hours Lecture
This course examines the communication behaviors involved in the process of interpersonal, work group, and organizational conflicts. Course content will focus on conceptual understanding of theoretical foundations in the social sciences. Application and activities will address the components of conflict and the strategies by which conflict may effectively be managed in personal and professional settings.

COMM 341 Organizational Communication 3 Units

Formerly: COMM 13

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas B2, C
Acceptable for credit: CSU
54 hours Lecture
This course is designed to allow students to examine both theoretical and pragmatic essentials of effective organizational messages from preparation and presentation to effective observation and analysis. Students will explore the dynamics of organizational communication in various situations including focus groups, quality control groups, ad hoc committees, conflict negotiation teams, and problem-solving/decision-making groups. The roles of internal and external messages on the communication process and organizational effectiveness will be examined and analyzed.

COMM 343 Oral Communication in Business **3 Units**

Formerly: COMM 21

Prerequisite: Eligibility for ENGRW 300 or concurrent enrollment in ENGWR 100 or ESLW 340.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture
This course offers students the opportunity to study contemporary communication principles and practices as they occur in modern organizations. Emphasis is placed on the application of enhancing personal and professional communication in the workplace. Students will receive instruction in utilizing various technologies in research, preparation and presentation. Content focuses on identifying communication styles, improving presentational skills in formal and informal settings, working in and managing small groups, recognizing effective persuasive strategies as used in organizations, and developing fundamental skills in interviewing and promotion.

COMM 345 Interviewing **3 Units**

Formerly: COMM 17

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture
This course introduces students to the basic skills and fundamental concepts necessary for effective participation in the interview process. Special emphasis is given to practical experiences in a variety of interview contexts such as journalistic/probing, survey, and selection interviews.

COMM 351 Mass Media and Society (Same as ENGWR 384 and JOUR 310) **3 Units**

Formerly: COMM 19

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course exploring the way people communicate experiences and utilize communication skills in a variety of situations ranging from intrapersonal to mass media levels. The discussion of basic communication models and processes will focus on how various cultural and social processes affect communication.

COMM 361 The Communication Experience **3 Units**

Formerly: COMM 9

Prerequisite: Eligibility for ENGRW 300.
Advisory: Concurrent enrollment in COMM 270.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to basic skills and the introductory concepts necessary for effective communication in a variety of settings with a variety of audiences. Special emphasis is placed on practical experience within groups, facilitation of interpersonal relationships, and methods of conflict management. As part of this course, students are required to actively participate in groups and deliver oral presentations, both individually and in groups.

COMM 363 Introduction to Communication Theory **3 Units**

Formerly: COMM 8

Prerequisite: Eligibility for ENGWR 100 or ELSW 340.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course will introduce the student to the symbolic process of human communication through the study of basic communication models, fundamental theory, and relevant research findings. Emphasis will be placed on achieving an understanding of the communication process and the process through which researchers in the field add to their existing body of knowledge.

COMM 371 Voice and Diction **3 Units**

Formerly: COMM 7

Prerequisite: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course covers the analysis and effective use of the voice to express thought and feeling in a variety of communication situations, including innuendo and mixed messages. Included is the study of the attributes of the vocal mechanism and speech process, including proper breathing; articulation and voice production; and interpretation of literary selections to achieve planned audience response.

COMM 374 Forensics Laboratory 1-3 Units

Formerly: COMM 4

Prerequisite: Completion of COMM 301 with a grade of "C" or better or concurrent enrollment in COMM 301.
Acceptable for credit: CSU
18 hours Lecture; 108 hours Laboratory
Through individualized instruction and participation in public speaking events, academic debate, literature interpretation, public campaigns, and/or training presentations, students will develop listening skills, organization skills, and the ability to recognize matters of political, social, and economic importance. This course helps students develop their skills as critical thinkers and competent speakers. This is a lecture/laboratory course giving practice in preparing for and participating in the Student Speaker's Bureau and/or Intercollegiate Forensics competition. Areas of interest include debate, persuasive speaking, oral interpretation of literature, impromptu speaking, expository speaking, readers' theater, training presentations and campaign development. Field trips may be required. The course is open entry/open exit and may be repeated for a maximum of eight units. Students earn 1 unit of credit for every 18 hours of lecture or 54 hours of lab.

COMM 494 Topics in Communication .5-4 Units

Formerly: COMM 11

Prerequisite: None.
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture
This course is designed to give students an opportunity to study a variety of topics dealing with rhetoric and public address, communication theory, or oral interpretation. Selected topics would not include current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

Community Leadership Development COMDE

Student Leadership and Development

Myra K. Borg, Dean

South Gym 226

916-558-2194

COMDE 300 Leadership Skills Development 3 Units

Formerly: COMDE 10

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides an introduction to leadership development and examines leadership theory, student activism, and organizational behavior. It emphasizes community leadership development procedures and functions, with regard to the community college experience.

Community Studies

Emphasis on Direct Services
(Formerly Social Services Assisting)

Associate in Arts Degree

Career Certificate

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

The degree and certificate in Community Studies (emphasis in Direct Services) are designed to prepare students for work in public, private, and non-profit community service organizations such as social service, correctional, mental health, and community health agencies and programs. This program provides paraprofessional training for students who wish to work in assistant level positions under the supervision of workers with professional degrees. It may also serve as the first level of education in a career ladder leading to a professional degree.

Required Program for the Career Certificate	**Units**
SOC 330, Community Relations: Multicultural Issues	3
SOC 380, Introduction to Social Services	3
SOC 382, Introduction to Casework in Social Services	3
SOC 497, Institutional Work Experience	3
Electives	6
Total Units Required	**18**

Select six (6) units from the following: ADMJ 304, 340; BUS 320; FCS 324; PSYC 350, 376, 405; SOC 300, 301, 310, 335.

Suggested Electives
FCS 312, 314; PSYC 320, 340, 390; 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.

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

Communications Media (CMED)

Division of Learning Resources

Yvonne Maller, Interim Dean

Learning Resource Center 236

916-558-2253

CMED 146 Video and Audio Techniques 1 Unit

Formerly: CMED 90

Prerequisite: None
18 hours Lecture
This course is designed to enable students to gain skills in the operation and use of video and audio equipment and techniques. The course is useful for broadcast and cable television. Some of the topics that may be scheduled include: video performance techniques, audio performance techniques, video single camera shooting, television studio use and terminology, audio recording and editing, and writing for video.

Computer Information Science C I S

Associate in Science Degree

Career Certificate

Certificate of Completion

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

Computer Information Science, Degree and Career Certificate

Data Base

- **Data Base A, Certificate of Completion**
- **Data Base B, Certificate of Completion**
- **Data Base, Career Certificate**

Information/Word Processing

- **Word Processing Technician, Certificate of Completion**
- **Information Processing Technician, Certificate of Completion**
- **Information Processing Specialist, Career Certificate**
- **Information Processing, Degree**

Management Information Science, Degree and Career Certificate

Microcomputer Technician, Degree and Career Certificate

Information Systems Security, Degree and Career Certificate

Advanced CISCO Networking, Certificate of Completion

Network Administration, Degree and Career Certificate

Network Design, Degree and Career Certificate

PC Support, Career Certificate

Programming, Career Certificate

Software Application, Career Certificate

Web Publishing, Career Certificate

Web Programming, Career Certificate

Career Opportunities

Technical positions include: computer operator, programmer trainee, system analysts, database administrators, computer support or help desk specialists, and application developers. Opportunities in networking include: network support specialists, network administrators and technicians, Web masters, and Web site designers. Office related job openings include: administrative analysts and assistants; secretaries, receptionists and word processors; account and typist clerks, information technology trainee, technicians, and specialists; office and paralegal assistants; and, customer or client service representatives.

Transfer Information

CSU, Sacramento, offers a major in Computer Science through the School of Engineering and also Management Information Science as part of the Business Administration degree. Students planning to transfer to CSU, Chico or Sacramento, should include computer-programming languages in C++, Java, or VB, assembly language, data structures, discrete structures, one year of analytical geometry and calculus, and physics.

Students must also meet university admission requirements and other general education courses as outlined by each university. Consultation with an SCC counselor is advised.

Computer Information Science

Associate in Science Degree
Career Certificate

The Computer Information Science program is designed for student preparing for careers in computer programming and systems analysis. It provides a foundation in generally used and advanced programming languages. It will enhance a student's skills so that they can qualify as entry-level programmers and pursue careers in the computer industry.

Required Core Program	Units
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISC 320, Operating Systems (Unix/Linux)	1
CISA 320, Introduction to Data Base Management	1
CISC 320, Operating Systems (Windows)	1
CISC 321, Intermediate Operating Systems (UNIX/LINUX)	1
CISP 360, Introduction to Structured Programming (C - UNIX/ LINUX)	4
CISP 400, Object Oriented Programming with C++, or CISP 401, Object Oriented Programming with Java	4
CISP 430, Data Structures	4
CISP 318 or CISP 310, Assembly Language Programming/ Microcomputers	4
Total Units Required in Core	**27**

Plus six (6) units from the following:

CISA 321, Intermediate Data Base Management	1
CISC 355, Introduction to Data Communications	1.5
CISC 351, Introduction to Local Area Networks	1
CISC 305, Introduction to the Internet	1
CISW 300, Web Publishing	3
CISP 320, COBOL Programming	4
CISP 321, Advanced COBOL Programming	4
CISP 350, Data Base 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 457, Computer Systems Analysis and Design	3
CISN 303, Network Administration	3
Total Units Required	**33**

Suggested Electives
CISC 110; MATH 400, 401, 420; ENGWR 143, 300; BUS 100; STAT 300, MGMT 306; PHYS 410, 420.

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

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

Data Base

Certificate of Completion A, Level 2
Certificate of Completion B, Level 2
Career Certificate

The Database Certificates provide the basic knowledge and skills needed for positions in data base administration and support. Database skills are in high demand by nearly every organization and company. 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. Such positions include: database support assistants, administrative assistants, customer or client service representatives, and data entry clerks.

Data Base A, Certificate of Completion

Prerequisite: None.

Required Courses	Units
CISC 310, Introduction to Computer Information Science	3
CISA 320, Introduction to Data Base Management (Microsoft Access)	1
CISA 321, Intermediate Data Base Management (Microsoft Access)	1
CISA 320, Introduction to Data Base Management (Different Software Program in Windows or LINUX)	1
CISA 321, Intermediate Data Base Management (Different Software Program in Windows or LINUX)	1
Total Units for Database A Certificate	**7**

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

Data Base B, Certificate of Completion

Prerequisite: Database A, Certificate of Completion (7 Units)

Required Courses	Units
CISP 301, Algorithm Design and Implementation	4
CISP 350, Database Programming	3
CISP 370, Beginning Visual BASIC	4
Total Units for Data Base B Certificate	**11**

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

Data Base

Career Certificate

Prerequisite: Data Base A and B, Certificates of Completion above.

Required Program	Units
BUS 310, Business Communications, or ENGWR 300, College Composition, or ENGWR 100, College Writing	3
CISA 310, Beginning Electronic Spreadsheets	1
CISA 311, Intermediate Electronic Spreadsheets	1
CISC 320, Operating Systems (Windows or UNIX/LINUX)	1
CISP 360, Introduction to Structured Programming, OR CISP 320, COBOL Programming	4
CISP 457, Computer Systems Analysis and Design	3
Total Units Required	**13**
Total Units Required for Career Certificate	**31**

Career Certificate
The Career Certificate may be obtained by completion of Certificates A and B, plus the Career Certificate required program with grades of "C" or better.

Information/Word Processing

Word Processing Technician

Certificate of Completion, Level 2 and/or Level 3

This word processing certificate introduces students to microcomputer concepts and usage, and two major text processing software packages used in business organizations and legal firms. Text processing skills are in high demand by nearly every organization or company. Clerical, secretarial, and receptionist positions traditionally use software packages designed for word processing of memos and correspondence, reports, and manuals. With the explosion of technology, other computer-related positions are now requiring skills in one or more word processing packages. Such positions include: office assistants, paralegal assistant, administrative assistants, customer or client service representatives, and data entry clerks. Additionally, areas such as Web page publishing, accounting or bookkeeping, and banking require some skills in text processing as part of the job. This certificate is one of two under-18 unit certificates designed for students interested in the above jobs.

Required Courses	**Units**
CISC 300, Computer Familiarization, OR	1
CISC 310, Introduction to Computer Information Science	3
CISA 305, Beginning Word Processing (MS-WORD)	2
CISA 305, Beginning Word Processing (COREL WordPerfect - Windows or LINUX)	2
CISA 306, Intermediate Word Processing (MS-WORD)	2
CISA 306, Intermediate Word Processing (COREL WordPerfect - Windows or LINUX)	2
Total Units Required	**9-11 Units**

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

Information Processing Technician

Certificate of Completion, Level 3

This information processing certificate builds upon previous training in the use of word (or text) programs. Students who are currently employed in office-related jobs (many of which use word processing skills, are interested in opportunities for advancement. These positions usually require additional microcomputer application courses in spreadsheet, database management, graphics, and the use of the Internet. This certificate is one of two under-18 unit certificates designed for students interested in job advancement requiring additional computer skills.

Prerequisite: Required Certificate Word Processing Technician

Required Courses	**Units**
CISC 300, Computer Familiarization, OR	1
CISC 310, Introduction to Computer Information Science	3
CISA 305, Beginning Word Processing (MS-WORD)	2
CISA 305, Beginning Word Processing (COREL WordPerfect - Windows or LINUX)	2
CISA 306, Intermediate Word Processing (MS-WORD)	2
CISA 306, Intermediate Word Processing (COREL WordPerfect - Windows or LINUX)	2
Total Units Required	**9-11**

Required Program	**Units**
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Data Base Management	1
CISC 320, Operating Systems (Windows or UNIX/LINUX)	1
CISA 340, Presentation Graphics	2
CISC 305, Introduction to the Internet	1
Total	**6**
GRAND TOTAL	**15-17**

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

Information Processing Specialist

Career Certificate

This career certificate builds upon previous training in the use of microcomputer application programs. Students who are currently employed in office-related jobs are interested in opportunities for advancement. These positions require advanced microcomputer application courses in word processing, spreadsheet, database management, graphics, and the use of the Internet. Additionally, because many employees with advanced computer skills are considered the lead or resource person in their department or organization, a basic understanding of hardware support and maintenance is advantageous.

Prerequisite: Required Certificate- Word Processing Technician

Required Courses	**Units**
CISC 300, Computer Familiarization, OR	1
CISC 310, Introduction to Computer Information Science	3
CISA 305, Beginning Word Processing (MS-WORD)	2
CISA 305, Beginning Word Processing (COREL WordPerfect - Windows or LINUX)	2
CISA 306, Intermediate Word Processing (MS-WORD)	2
CISA 306, Intermediate Word Processing (COREL WordPerfect - Windows or LINUX)	2
Total Units Required	**9-12**

Prerequisite: Required Certificate - Information Processing Technician

Required Courses	Units
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Database Management	1
CISC 320, Operating Systems (Windows or UNIX/LINUX)	1
CISA 340, Presentation Graphics	2
CISC 305, Introduction to the Internet	1
Total Units Required	**6**

Required Program - Information Processing Specialist

CISA 311, Intermediate Electronic Spreadsheets	1
CISA 321, Intermediate Database Management	1
ET 145, Basic Computer System Repair I	1
ET 146, Basic Computer System Repair II	3
ET 147, Basic Computer System Repair III	3
Total Units	**9**
Total Units Required for Certificate	**24-26**

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

Information Processing

Associate in Science Degree

This degree combines beginning and intermediate competencies in the use of microcomputer application programs with hardware maintenance and repair. Students would be able to incorporate three inter-related certificates of completion (Word Processing Technician, Information Processing Technician, and Information Processing Specialist) in addition to obtaining the degree in information processing. Students who are currently employed in office-related jobs are interested in opportunities for advancement. Increasingly, these positions require advanced microcomputer application courses and degrees in word processing, spreadsheet, database management, graphics, and the use of the Internet. Additionally, because many employees with advanced computer skills are considered the lead or resource person in their department or organization, a basic understanding of hardware support and maintenance is advantageous. Finally, in many organizations, students may be able to advance to supervisory or managerial positions with this degree.

Required Program	Units
CISC 300, Computer Familiarization, OR	1
CISC 310, Introduction to Computer Information Science	3
CISA 305, Beginning Word Processing (MS-WORD)	2
CISA 305, Beginning Word Processing (COREL WordPerfect - Windows or LINUX)	2
CISA 306, Intermediate Word Processing (MS-WORD)	2
CISA 306, Intermediate Word Processing (COREL WordPerfect - Windows or LINUX)	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 311, Intermediate Electronic Spreadsheets	1
CISA 320, Introduction to Database Management	1
CISA 321, Intermediate Database Management	1
CISC 320, Operating Systems (Windows or UNIX/LINUX)	1
CISA 340, Presentation Graphics	2
CISC 305, Introduction to the Internet	1
ET 145, Basic Computer System Repair I	1
ET 146, Basic Computer System Repair II	3
ET 147, Basic Computer System Repair III	3
Total Units Required	**24-26**

Suggested Electives
CISC 110, CISC 320 and CISC 321(LINUX), CISC 355, CISC 351, CISC 306, CISC 360; ET 490.

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

Management Information Science

Associate in Science Degree
Career Certificate

The Management Information Science option is designed for students preparing for careers in business using microcomputer applications. The focus of the program is to develop student proficiency in a variety of computer applications and operating systems. Elective courses give an opportunity to develop further skills in networking applications and programming.

Required Program

Core Program	Units
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Database Management	1
CISC 320, Operating Systems - Windows or Unix/Linux	1
CISP 360, Introduction to Structured Programming (C-Unix/Linux) ,OR CISP 320, COBOL Programming	4
Core Units	16
ACCT 101, Fundamentals of Accounting and Recordkeeping, OR ACCT 301, Financial Accounting	3-4

Plus Four (4) units from the following:	Units
CISP 400, Object Oriented Programming with "C++"	4
CISP 321, Advanced COBOL Programming	4
CISP 370, Beginning Visual BASIC	4
CISP 401, Object Oriented Programming with JAVA	4

Plus Four(4) units from the following:

CISA 306, Intermediate Word Processing 2
CISA 311, Intermediate Electronic Spreadsheets 1
CISA 321, Intermediate Data Base Management 1
CISC 321, Intermediate Operating Systems 1
CISA 340, Presentation Graphics 2
CISC 355, Introduction to Data Communications 1.5
CISA 350, GroupWare 1
CISC 360, Microcomputer Support and Maintenance 4

Plus Six (6) units from the following:

CISC 355, Introduction to Data Communications 1.5
CISC 305, Introduction to the Internet 1
CISC 306, Introduction to Web Page Creation, OR CISW 300, Web Publishing 1-3
CISW 310, Advanced Web Publishing 4
CISW 400, Client-side Web Scripting 4
CISW 410, Middleware Web Scripting 4
CISW 420, Server-side Web Scripting 4
CISP 400, Object Oriented Programming with "C++" 4
CISP 342, Structured Programming with FORTRAN 4
CISP 318, Assembly Language Programming, IBM Mainframe, OR CISP 310, Assembly Language Programming for Microcomputers 4
CISP 321, Advanced COBOL Programming 4
CISP 350, Database Programming 3
CISP 370, Beginning Visual BASIC 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
CISN 300, Network Systems Administration 3
CISN 306, Advanced Network Systems Administration 2-3
CISN 308, Internetworking with TCP/IP 2-3

Total Units Required 33-34

Other Electives
CISC 110; MATH 120, 400, 401; ENGWR 300/BUS 100; STAT 300; MGMT 306.

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.

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

Microcomputer Technician

Associate in Science Degree
Career Certificate

Designed for Electronics Technology and Computer Information Science students pursuing employment in the area of programming and maintaining microcomputer systems.

Required Program **Units**

CISC 310, Introduction to Computer Information Science 3
CISP 301, Algorithm Design and Implementation 4
CISA 305, Beginning Word Processing 2
CISA 310, Introduction to Electronic Spreadsheets 1
CISA 311, Intermediate Electronic Spreadsheets 1
CISA 320, Introduction to Database Management 1
CISC 320, Operating Systems (Windows or UNIX/LINUX) 1
CISC 355, Introduction to Data Communications 1.5
CISP 360, Introduction to Structured Programming (C - UNIX/LINUX), OR
CISP 400, Object Oriented Program with "C++", OR
CISP 401, Object Oriented Programming with JAVA 4
ET 340, Basic Microprocessors 5
ET 390, Microprocessor Systems - Troubleshooting 3
ET 490, Advanced Student Projects Laboratory 2, 2
Electives 6

Total Units Required 36.5

Select electives totaling six (6) units:
CISC 310, CISC 360; ET 300/301, 305, 310/311, 320; EDT 310, 352; TECH 100, 103, 300, 310, 315.

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

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

Information Systems Security

Associate in Science Degree
Career Certificate

Information systems security has become a critical knowledge area for those interested in a career as an IT Professional. This degree is designed to give students the tools and skills necessary to work in this rapidly growing field.

Required Program for the Degree	**Units**
BUS 310, Business Communications OR ENGWR 300, College Composition	3
BUS 340, Business Law, OR BUS 345, Law and Society	3
PHIL 310, Introduction to Ethics, OR PSYC 300, General Principles, OR PSYC 350, Human Behavior	3
COMM 301, Introduction to Public Speaking Speech, OR COMM 321, Interpersonal Communication, OR COMM 325, Intercultural Communication, OR COMM 331, Group Disscussion	3
MATH 120, Intermediate Algebra, or higher level mathematics, OR MATH 125, Intermediate Algebra with Applications (a CRC course)	3-5
CISC 320, Operating Systems (Windows or Linux)	1
CISC 321, Operating Systems (Windows or Linux)	1
CISN 304, Networking Technologies	3
CISN 100, Network Systems Administration, OR CISN 300, Network Systems Administration	2-3
CISN 102, Intermediate Network Systems Administration, OR CISN 302, Intermediate Network Systems Administration	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 Operating System Security, OR	3
CISS 342, Implementing Linux Operating Systems Security	3
CISS 350, Disaster Recovery	3
CISS 360, Computer Forensics and Investigation	3
Total	**46 - 49**

Plus three (3) units selected from the following:

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 498, Work Experience in Computer Information Science.	1-4
CISN 106, Advanced Network Systems Administration, OR CISN 306, Advanced Network Systems Administration	3
CISN 108, Internetworking With TCP/IP, OR CISN 308, Internetworking With TCP/IP	3
CISN 322, Designing a Secure Windows Network	3
CISN 374, Messaging Server Administration	3
CISN 379, Database Administration for Microsoft SQL Server	3
CISN 324, Designing Windows Networking Services	3
CISN 140, CISCO Networking Academy (CCNA) Networking Theories and Routing Technologies	3
CISN 170, Web Server Administration, OR CISN 370, Web Server Administration	3
CISP 370, Beginning Visual BASIC	4
Total Units Required	**49-52**

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

Information Systems Security

Career Certificate

Information Security is a priority in an organization's environment. Viruses, network and operating system attacks have prompted business and government organizations to develop tighter standards for information security. Technology professionals need to be aware of network threats and countermeasures used to protect valuable information.

Required Program for the Career Certificate	**Units**
CISC 320, Operating Systems (Windows or Linux)	1
CISC 321, Operating Systems (Windows or Linux)	1
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 Operating System Security, OR CISS 342, Implementing Linux Operating Systems Security	3
Total	**17**

Plus six (6) units selected from the following:

CISC 360, Microcomputer Support and Maintenance	4
CISN 322, Designing a Secure Windows Network	3
CISN 331, Network Theory and Routing Technologies	3
CISN 170, Web Server Administration, OR CISN 370, Web Server Administration	3
CISN 498, Work Experience in Computer Information Science.	1-4
CISN 141, CISCO Networking Academy (CCNA), Networking Theory and Routing Technologies	3
CISS 350, Disaster Recovery	3
CISS 360, Computer Forensics and Investigation	3
Total Units Required	**23**

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

Network Administration

Associate in Science
Career Certificate

The Network Administration Degree and Career Certificate recognize the basic skills needed in today's networking environment. Focus is on the knowledge and skills required for day-to-day operation and management of computer networks. These prepare students for entry-level positions in computer network administration.

Required Core	**Units**
Bus 310, Business Communications or ENGWR 300, College Composition, or ENGWR 100, College Writing	3
CISC 310, Introduction to Computer Information Science	3
CISC 320, Operating Systems (Windows or Unix/Linux)	1

Concentration Requirements	**Units**
CISC 321, Intermediate Operating Systems (Windows or Unix/Linux)	1
CISC 351, Introduction to Local Area Networks	1
CISC 355, Introduction to Data Communications	1.5
CISN 303, Network Administration, or CISN 100, OR CISN 300, Network Systems Administration	2 - 3
CISN 302, Intermediate Network Systems Administration	3
CISN 304, Network Technologies	3
CISN 306, Advanced Network Systems Administration	3
CISN 308, Internetworking with TCP/IP	3
CISN 370, Web Server Administration, OR CISN 374, Messaging Server Administration	3
CISS 300, Intro to Information Systems Security	1
Units	**28.5-29.5**

Plus six (6) units selected from

CISN 305, Managing a Windows Network Environment	3
CISN 320, Designing Windows Directory Services	3
CISN 322, Designing a Secure Windows Network	3
CISN 324, Designing Windows Networking Services	3
CISS 310, Network Security Fundamentals	3
CISS 320, Implementing Network Security	3
Total Units Required	**34.5-35.5**

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

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

Network Design

Associate in Science Degree
Career Certificate

The Network Design Degree and Career Certificaterecognizes the basic skills needed in today's networking environment. Focus ison the knowledge and skills required for day-to-day operation and management of computer networks. These prepare students for entry-level positions in computer network design.

Required Core	**Units**
ENGWR 300, College Composition, OR BUS 310, Business Communications	3
CISC 310, Introduction to Computer Information Science	3
CISC 320, Beginning Operating Systems (Windows or UNIX/ LINUX)	1
Total Units Required in Core	**7**

Concentration Requirements	
CISC 321, Intermediate Operating Systems (Windows or UNIX/ LINUX)	1
CISN 140, CISCO Networking Academy (CCNA)™: Data Communication and Networking Fundamentals	3
CISN 141, CISCO Networking Academy (CCNA)™: Networking Theory and Routing Technologies	3
CISN 142, CISCO Networking Academy (CCNA)™: Advanced Routing and Switching	3
CISN 143, CISCO Networking Academy (CCNA)™: Wide Area Networks and Project-Based Learning	3
CISN 108 or CISN 308, Internetworking with TCP/IP	3
CISN 146, Network Design and Projects,OR CISN 136, Wireless Technologies	3-3.5
Total Concentration Requirements	**19-19.5**
Total Units Required for Degree	**26-26.5**

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

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

Advanced CISCO Networking

Certificate of Completion

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.

Note: Students qualify to take the required courses for this certificate when Prerequisite Option I, II, or III is completed.

Prerequisite Option I: **Units**

ENGWR 300, College Composition 3
CISC 310, Introduction to Computer Information Science3
CISC 320, Beginning Operating Systems (Windows and UNIX/LINUX) 1
CISC 321, Intermediate Operating Systems (Windows or UNIX/LINUX) 1
CISN 140, CISCO Networking Academy (CCNA)™: Data Communications and Networking Fundamentals 3
CISN 141, CISCO Networking Academy (CCNA)™: Networking Theory and Routing Technologies 3
CISN 142, CISCO Networking Academy (CCNA)™: Advanced Routing and Switching 3
CISN 143, CISCO Networking Academy (CCNA)™: Wide Area Network and Project-Based Learning 3
CISN 308, Internetworking with TCP/IP 3

Prerequisite Option II

CISN 140, CISCO Networking Academy (CCNA)™: Data Communications and Networking Fundamentals 3
CISN 141, CISCO Networking Academy (CCNA)™:Networking Theory and Routing Technologies 3
CISN 142, CISCO Networking Academy (CCNA)™: Advanced Routing and Switching 3
CISN 143, CISCO Networking Academy (CCNA)™: Wide Area Network and Project-Based Learning 3
CISN 308, Internetworking with TCP/IP 3

Prerequisite Option III: Possession of a valid CCNA certification

Required Courses: Advanced CISCO Network Certificate
CISN 150, CISCO Networking Academy (CCNP)™: Advanced Router Configuration 3
CISN 151, CISCO Networking Academy (CCNP)™: Remote Access 3
CISN 152, CISCO Networking Academy (CCNP)™: Multi-Layer Switching 3
CISN 153, CISCO Networking Academy (CCNP)™: Internetwork Troubleshooting 3

Total Required Units **12**

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

PC Support

Career Certificate

With the rapid expansion of computers into all aspects of society, there is a growing need for technicians to install, maintain, and support computers and the networks that they utilize. This program is designed to provide the foundation knowledge needed to acquire entry-level positions in computer support.

Required Program **Units**

BUS 310, Business Communications, OR
ENGWR 300, College Composition, OR
ENGWR 100, College Writing 3
CISC 310, Introduction to Computer Science 3
CISP 301, Algorithm Design and Implementation 4
CISC 320, Operating Systems (Windows or UNIX/LINUX) 1

Total Units Required in Core **11**

Concentration Requirements

CISA 305, Beginning Word Processing 2
CISA 310, Introduction to Electronic Spreadsheets 1
CISA 320, Introduction to Data Base Management 1
CISC 355, Introduction to Data Communications 1.5
CISC 351, Introduction to Local Area Networks 1
CISC 305, Introduction to the Internet 1
CISC 360, Microcomputer Support and Maintenance 4

Choose one of the following:

CISA 340, Presentation Graphics 2
CISC 306, Introduction to Web Page Creation, OR
CISW 300, Web Publishing 1-3

Total Units Required for Certificate **23.5-25.5**

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

Programming
Career Certificate

The programming certificate provides the foundation skills needed by computer programmers. Students will acquire the basic proficiencies needed for entry level programming positions in business.

Required Program	**Unit**
BUS 310, Business Communications, OR ENGWR 300, College Composition, OR ENGWR 100, College Writing	3
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISC 320, Operating Systems (Windows or UNIX/LINUX)	1
CISP 360, Introduction to Structured Programming (C - UNIX/LINUX)	4
CISP 400, Object Oriented Programming with C++, OR CISP 401, Object Oriented Programming with JAVA	4
CISP 430, Data Structures	4
CISP 457, Computer Systems Analysis and Design	3
Total	**26**

Select Four (4) units from the following:

CISP 318, Assembly Language Programming, IBM Mainframe, OR CISP 310, Assembly Language Programming for Microcomputers	4
CISP 320, COBOL Programming	4
CISP 321, Advanced 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
Total Units Required	**30**

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

Software Application
Career Certificate

This program focuses on the broad range of knowledge needed in computer applications. Students will acquire skills in specific software applications generally used on microcomputers. It provides knowledge in word processing, database management, spreadsheets, operating systems, graphics, telecommunications, and Internet applications.

Required Program

Required Core	**Units**
BUS 310, Business Communications, OR ENGWR 300, College Composition, OR ENGWR 100, College Writing	3
CISC 310, Introduction to Computer Information Science	3
CISC 320, Operating Systems (Windows or LINUX)	1
Total Units Required in Core	**7**

Concentration Requirements

CISA 305, Beginning Word Processing	2
CISA 306, Intermediate Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 311, Introduction to Electronic Spreadsheets	1
CISA 320, Introduction to Data Base Management	1
CISA 321, Intermediate Data Base Management	1
CISA 340, Presentation Graphics	2
CISC 355, Introduction to Data Communications	1.5
CISC 305, Introduction to the Internet	1
CISC 306, Introduction to Web Page Creation, OR CISW 300, Web Publishing	1-3
Total Units Required for Certificate	**20.5-22.5**

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

Web Programming
Career Certificate

Career Opportunities: This certificate is designed to prepare a student for an entry-level job as a Web programmer. The student will be able to design, code, and test Web sites. The student will know how to connect a database to a Web site and will have some scripting knowledge as well.

Required Courses	**Units**
ENGWR 300, College Composition, OR ENGWR 100, College Writing, OR BUS 310, Business Communications	3
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISC 320, Operating Systems (Windows)	1
CISC 320, Operating Systems (Unix / Linux)	1
CISC 321, Intermediate Operating Systems (Unix / Linux)	1
CISW 300, Web Publishing, OR CISW 310, Advanced Web Publishing, OR CISW 400, Client-side Web Scripting	3-4
CISW 370, Designing Accessible Web Sites	1
CISW 410, Middleware Web Scripting, OR CISW 420, Server-side Web Scripting	4
CISP 360, Introduction to Structured Programming (C++/Unix/Linux)	4
CISP 350, Database Programming (Oracle or SQL Server)	3
CISP 401, Object Oriented Programming with Java	4
CISW 470, Web Team Projects	3
Total Units Required	**35-36**

Suggested Electives
GCOM 103, Adobe Acrobat; GCOM 330, Beginning PhotoShop; GCOM 361, Creative Web Page Design; GCOM 363, Flash; CISW 351, Graphics for the Web; CISP 370, Beginning Visual Basic; CISN 370, Web Server Administration; CISN 308, Internetworking with TCP/IP; or CISW 405, Action Script for Flash!.

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

Web Publishing
Career Certificate

Career Opportunities: This certificate is designed to prepare the student to take an entry-level position with a company that makes pages for the World Wide Web. Students will learn how to create pages with HTML and software tools, how to find and fix errors in tags on pages, and will create simple client-side and server-side scripting. The students will also learn how to make forms, to incorporate graphics onto Web pages, and to interact with Web site users. An internship is included with this certificate to enable students to work in the Web publishing field and to develop actual Web pages for clients.

Required Program	**Units**
BUS 310, Business Communications, OR ENGWR 300, College Composition, OR ENGWR 100, College Writing	3
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISC 320, Operating Systems (Windows NT/2000)	1
CISC 320, Operating Systems (UNIX/LINUX)	1
CISW 300, Web Publishing	3
CISW 310, Advanced Web Publishing	4
CISW 370, Designing Accessible Web Sites	1
CISW 470, Web Team Projects	3
GCOM 360, Graphics for the Web, OR CISW 351, Graphics for the Web	3
GCOM 361, Creative Web Page Design	3
GCOM 103, Introduction to Adobe Acrobat	1.5
Total Units Required	**30.5**

Suggested Electives
CISC 110, CISW 400, 410, 420; GCOM 340, 363.

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

Computer Info Science - Applications (CISA)

CISA 305 Beginning Word Processing 2 Units

Formerly: CIS 11A

Prerequisite: CISC 300.
Advisory: BUSTEC 300 or BUSTEC 100 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
The course introduces the student, through hands-on operation, to the use of word processing functions such as terminology and screen formats, directories and sub-directories, dialogue boxes, text editing, text format programming, text enhancements, sorting, merging functions, mathematical calculations, saving and retrieving, and printing text. The course may be taken three times for credit on a different software package or operating system.

CISA 306 Intermediate Word Processing 2 Units

Formerly: CIS 11B

Prerequisite: CISA 305 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course builds upon previous training in the use of word processing programs. The course includes a brief review of basic editing and text concepts, then covers intermediate software features such as document processing functions, macro programming functions, complex document styles and commands, table, and graphics applications. The course incorporates all word processing features into the production of one final presentation/job portfolio. The course may be taken three times for credit on a different software package or operating system.

CISA 310 Introduction to Electronic Spreadsheets 1 Unit

Formerly: CIS 12A

Prerequisite: None
Advisory: CISC 300.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course is introduces the student to the use of electronics spreadsheet programs. The course includes designing a spreadsheet, developing formulas for automatic calculations, using special functions, developing "what if?" models, and producing printed reports. An overview of the graphic capabilities will be presented. The course may be taken three times for credit on a different software package or operating system.

CISA 311 Intermediate Electronic Spreadsheets 1 Unit

Formerly: CIS 12B

Prerequisite: CISA 310.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course will extend the capabilities of students who have started to use electronic spreadsheet software. Topics and laboratory assignments will include graphic display of data and the use of macros to automatically manipulate spreadsheet data. The course may be taken three times for credit on a different software package or operating system.

CISA 320 Introduction to Database Management 1 Unit

Formerly: CIS 13A

Prerequisite: None
Advisory: CISC 300.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces database management systems. Using Windows application programs, students will design and implement practical database applications. Topics include database and reports design, data views and queries, and data maintenance. This course may be taken three times for credit on different software programs or operating systems.

CISA 321 Intermediate Database Management 1 Unit

Formerly: CIS 13B

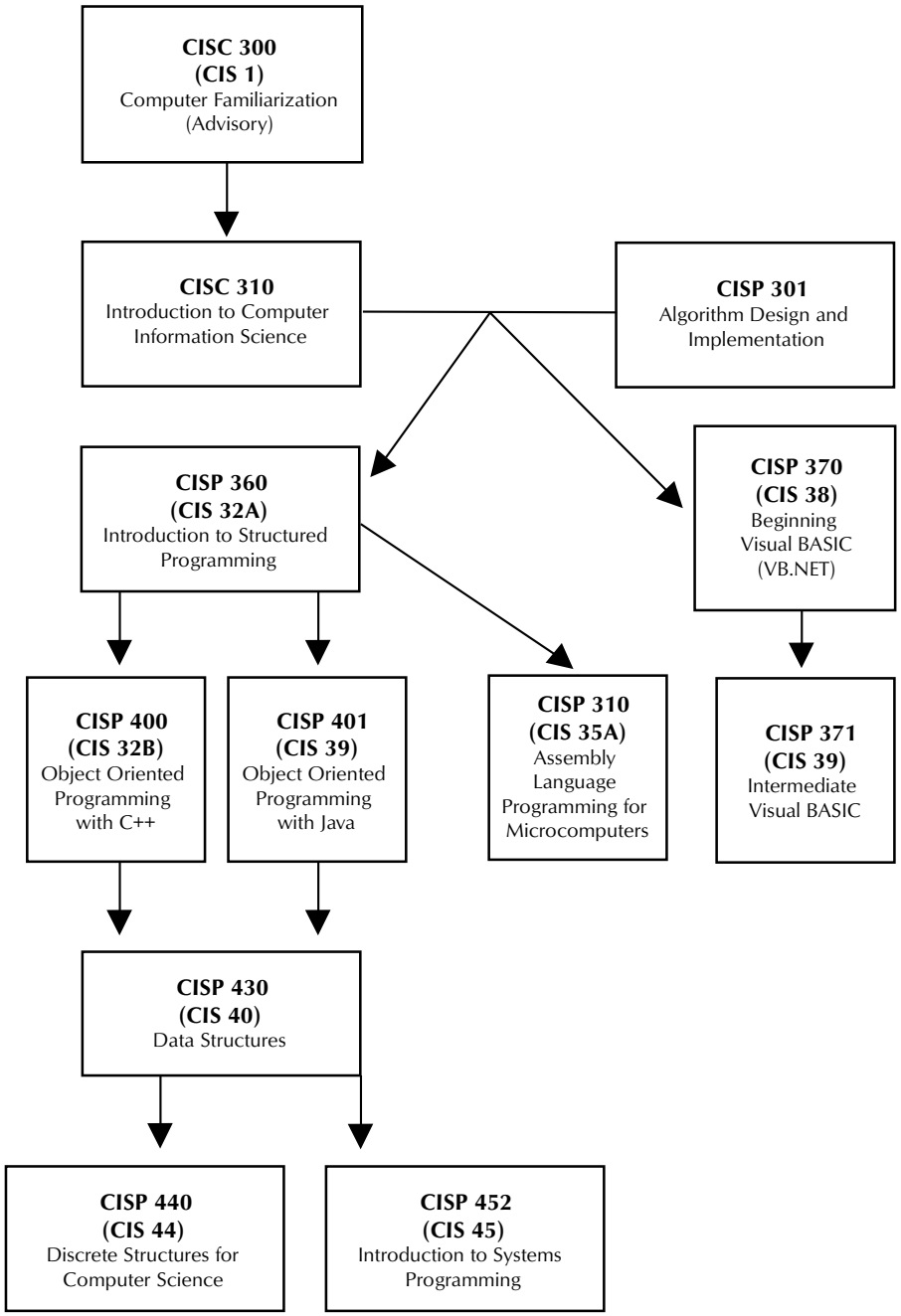
Prerequisite: CISC 320.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course will extend the capabilities of students who have completed a first course in microcomputer data base management. Students design and implement practical database applications, including relational data base design to develop programming applications. The course may be taken three times for credit on a different software package or operating system.

CISA 340 Presentation Graphics 2 Units

Formerly: CIS 15A

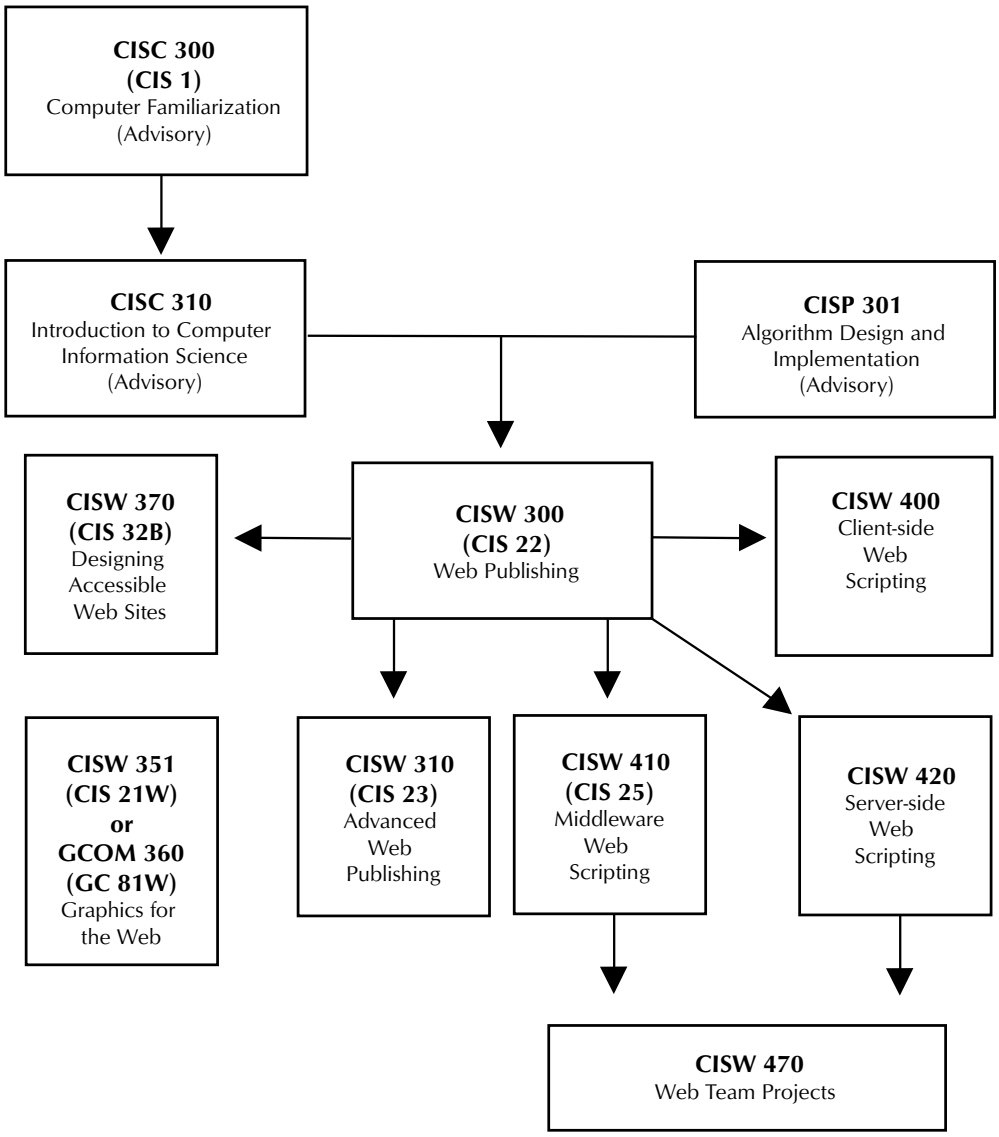
Prerequisite: None
Advisory: CISC 300 or 310.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course presents an in-depth look at using computers as a graphics presentation tool to assist oral, written, and on-screen presentations. Topics include system requirements, graphic software, elements of a good presentation, types of graphics, and designing slide show techniques for visual presentations. Students will learn how to edit and format presentations, animation, organizational charts, and clips (graphics, sounds, or video). Designing presentations linked to word processing, spreadsheet, or database programs is included. Students will use a variety of computer hardware and software to produce individual and/or group projects. The class will include both lecture and hands-on experience.

Computer Information Science
Sequence of Modern Programming Language Courses



- CISC 310 and CISP 301 requirements have been satisfied if CIS 2, Introduction to Computer Science, was completed in a previous year.
- 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: CISC 310 and CISP 301 requirements have been satisfied if CIS 2, Introduction to Computer Science, was completed in a previous year.

CISA 350 Groupware 1 Unit
Formerly: CIS 18A

Prerequisite: None
Advisory: CISC 300.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces desktop management software which allows students to organize and communicate across microcomputer applications. Using different Windows-based software, the student will design and manage electronic mail messages, faxes, appointments, contacts, task, activities, and notes. Topics include calendar manipulation, information management, and profile interfaces. This course may be taken three times for credit on different software programs or operating systems.

Computer Info Science - Core (CISC)

CISC 90 Computer Skills for New Users .5 Unit
Prerequisite: None
9 hours Lecture
This course introduces the beginning computer student, through hands-on operation, to the features of the microcomputer. The student will learn how the computer works and what computers can do, including a brief overview of Windows operations, word processing, spreadsheets, the use of the Internet and e-mail. This course does not fulfill the prerequisite requirement for any Computer Information Science course in applications, programming, web page, or networking. This course is non-degree, non-certificate applicable. This course is designated as a credit/no credit course only.

CISC 100 Computer Lab Orientation .5 Unit
Formerly: CIS 90

Prerequisite: None
9 hours Lecture
This course is recommended for all students without prior lab use experience taking a class that requires the use of a Business Computer Lab. The course covers lab rules and requirements, equipment and programs, personnel and procedures. The class is credit/no credit and may be challenged.

CISC 110 Using ePortfolios 1 Unit
Prerequisite: None
18 hours Lecture
The course covers ePortfolios, which is the electronic equivalent of portfolio applications. It is designed to demonstrate how students can assemble digital content files of any types and structured data forms to build multiple, tailored views of these items, and share each of the views with appropriate third parties over the Internet. Students will learn how to include work samples, grades and essays, biographical information, in-progress course work, digital media, special versions of different resumes for different jobs, reference letters, transcripts, writing samples and other work products.

CISC 300 Computer Familiarization 1 Unit
Formerly: CIS 1

Prerequisite: None
General Education: AA/AS Area D2
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course acquaints students with computers and how they 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 for Computer Information Science application courses. The course is specially designed for students wishing a very general, non-technical, introductory course in computers.

CISC 305 Introduction to the Internet 1 Unit
Formerly: CIS 21A

Prerequisite: None
Advisory: CISC 300 or CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture
This course explains how the Internet works, how to connect, and how to use Internet services. Laws that guide the use of the Internet will be covered. Other topics include Internet protocols, e-mail, news groups, discussion lists, Telnet, File Transfer Protocol FTP), World Wide Web, and emerging technologies.

CISC 306 Introduction to Web Page Creation 1 Unit
Formerly: CIS 21B

Prerequisite: CISC 300 with a grade of "C" or better, or CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course covers the production of Web pages, including design, layout; construction, and presentation. A current markup language, such as HTML, is used to format Web pages. Students will also use a Web authoring tool to design Web pages.

CISC 310 Introduction to Computer Information Science 3 Units
Prerequisite: None
Advisory: CISC 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of the computer field covering the function and purpose of computer hardware and software, computer programming concepts, productivity software, employment opportunities, and the social impact of the computer.

CISC 320 Operating Systems 1 Unit

Formerly: CIS 14A

Prerequisite: None
Advisory: CISC 300 or CISC 310.
General Education: AA/AS Area D2
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces the students to the microcomputer operating system. The student will become familiar with basic features, file and program management, disk management commands, and menus. This course may be taken three times for credit for different operating systems.

CISC 321 Intermediate Operating Systems 1 Unit

Formerly: CIS 14B

Prerequisite: CISC 320 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
The course covers the study of intermediate and advanced operating system commands, effective utility use, advanced batch files/script files, program logic, disk organization, development of user-friendly systems, and anticipating and preventing system problems. The course may be taken three times using different operating systems.

CISC 350 Introduction to Data Communications 1 Unit

Formerly: CIS 16A

Prerequisite: None
Advisory: CISC 300.
Acceptable for credit: CSU
18 hours Lecture
This course will introduce business data communications. Students will learn about media, telecommunications, protocols, interfaces and packet switching. Independent assignments will include using web browsers for locating, viewing, printing, and downloading information from the Internet.

CISC 351 Introduction to Local Area Networks 1 Unit

Formerly: CIS 16B

Prerequisite: CISC 350.
Advisory: CISC 320.
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course introduces local area networks and provides hands-on training in Local Area Network (LAN) applications and administration. Topics include planning, installing, and maintaining a LAN, responsibilities of the system administrator, and human implications. Lab activities will be completed using local area network.

CISC 355 Introduction to Data Communications 1.5 Units

Prerequisite: None
Advisory: CISC 300 or CISC 310 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture
This course will introduce business data communications. Students will learn about media, telecommunications, protocols, interfaces and packet switching. Independent assignments will include research using the Internet for locating, viewing, printing, and downloading information.

CISC 360 Microcomputer Support and Maintenance 4 Units

Formerly: CIS 29

Prerequisite: None
Advisory: CISC 351.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course is an introduction to technical support and maintenance of microcomputers. It includes lecture and hands-on application of help desk concepts and responsibilities, hardware and software troubleshooting in a networked environment, system documentation, and technical communication skills. Seventy-two hours of internship are required as part of the laboratory component of the course.

CISC 494 Topics in Computer Information Science .5-5 Units

Formerly: CIS 93

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This specialized course has been developed in cooperation with industry to address emerging training needs. This course may be repeated no more than three times for credit provided there is no duplication of topics. See the Schedule of Classes for the topic offered.

CISC 498 Work Experience in Computer Information Science 1-4 Units

Formerly: CIS 98

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
See Work Experience.

Computer Info Science-Network (CISN)

CISN 136 Wireless Technologies 3 Units

Prerequisite: CISN 141 with a grade of "C" or better.
General Education: AA/AS Area D2
54 hours Lecture, 18 hours Laboratory
This introductory course to wireless networking focuses on the design, planning, implementation, operation and troubleshooting of wireless networks. It covers a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands-on skills in setup and troubleshooting; 802.11a and 802.11b technologies, products and solutions; site surveys; resilient WLAN design, installation, and configuration; WLAN security, and vendor interoperability strategies.

CISN 140 CISCO Networking Academy (CCNA)™: Data Communication and Networking Fundamentals 3 Units

Formerly: CIS 72A

Prerequisite: None
Advisory: CISC 355 and CISC 300 or CISC 310.
54 hours Lecture; 18 hours Laboratory
This course is designed to introduce students to data communication and networking fundamentals. The course surveys data communication hardware and software components and basic networking concepts. Topics covered include data communication, the OSI Model, IP addressing, routing concepts, LAN media, and network management and analyses. This is the first course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 141 CISCO Networking Academy (CCNA)™: Networking Theory and Routing Technologies 3 Units

Formerly: CIS 72B

Prerequisite: CISN 140 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course provides an introduction to networking theory and routing technologies, including OSI Model, beginning router configurations, routed and routing protocols. This is the second course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 142 CISCO Networking Academy (CCNA)™: Advanced Routing and Switching 3 Units

Formerly: CIS 72C

Prerequisite: CISN 141 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course provides advanced routing and switching technologies. Topics include advanced router configurations, network management, advanced network design, LAN switching, and VLANS. This is the third course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 143 CISCO Networking Academy (CCNA)™: Wide Area Network and Project-Based Learning 3 Units

Formerly: CIS 72D

Prerequisite: CISN 142 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills to design and configure advanced wide area network (WAN) projects using CISCO IOS command set. This is the fourth course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI).

CISN 146 Network Design and Projects 3.5 units

Prerequisite: CISN 141 with a grade of "C" or better.
General Education: AA/AS Area D2
54 hours Lecture; 27 hours Laboratory
This course covers various state-of-the-art topics to design CISCO network infrastructures to support network services and solutions. Individual topics may include: introduction to voice design concepts; design principles; network structure and IP addressing design concepts; basic campus switching design and WAN design considerations; routing protocol design considerations; introduction to security design concepts and network management design concepts.

CISN 150 CISCO Networking Academy (CCNP)™: Advanced Router Configuration 3 Units

Formerly: CIS 73A

Prerequisite: CISN 143 or valid CISCO Certified Network Associate (CCNA) certification.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in advanced outer configuration using CISCO IOS command set. Topics include advanced IOS command set, network design, scalable routing protocols (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), and Border Gateway protocol (BGP). This is the first course in a series of four advanced courses in preparation for CISCO certification examination.

CISN 151 CISCO Networking Academy (CCNP)™: Remote Access 3 Units

Formerly: CIS 73B

Prerequisite: CISN 150 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in building remote access networks. Topics include design, configuration, enabling on-demand connections, enabling permanent connections, scaling remote access networks and remote access network setup, and management. This is the second course in a series of four advanced courses in preparation for the CISCO certification examination.

CISN 152 CISCO Networking Academy (CCNP)™: Multi-Layer Switching 3 Units

Formerly: CIS 73C

Prerequisite: CISN 151 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in multi-layer switched networks. Topics include how routing and switching technologies work together, building campus networks using multiplayer switching technologies, using VLAN, improving IP performance and securing the campus network model. This is the third course in a series of four advanced courses in preparation for the CISCO certification examination.

CISN 153 CISCO Networking Academy (CCNP)™: Internetwork Troubleshooting 3 Units

Formerly: CIS 73D

Prerequisite: CISN 152 with a grade of "C" or better.
54 hours Lecture; 18 hours Laboratory
This course develops knowledge and skills in fundamental hardware maintenance and troubleshooting routers and switches. Topics include managing and maintaining networks, troubleshooting tools and methodology, routing and routed protocol troubleshooting, campus switch and VLAN troubleshooting and WAN troubleshooting. This is the fourth course in a series of four advanced courses in preparation for the CISCO certification examination.

CISN 300 Network Systems Administration 3 Units

Formerly: CISN 100, CIS 80

Prerequisite: CISC 310 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the administration of a server in a client/server network. Topics include designing a basic network, installing, and configuring a network share: setting up and managing network printers; backing up servers; monitoring and troubleshooting network resources; and establishing policies and procedures for network operations. This course covers material required for the Microsoft Networking examinations.

CISN 302 Intermediate Network Systems Administration 3 Units

Formerly: CISN 102, CIS 81

Prerequisite: CISN 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers advanced system administration in a client/server network. Topics include configuring the server environment; implementing system policies; implementing and managing fault-tolerant disk volumes; managing applications; managing connectivity for different network and client operating systems; managing remote servers; implementing directory replication and file synchronization; and advanced troubleshooting techniques. This course may be taken four times for credit with different operating systems. This course covers material required for the Microsoft Networking examinations.

CISN 303 Network Administration 3 Units

Formerly: CIS 60

Prerequisite: CISC 320.
Advisory: CISC 351.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 36 hours Laboratory
This course covers the basic of managing an existing Local Area Network (LAN). Topics covered include connecting to a network; utilizing network utilities; planning, accessing, and managing file systems; planning and implementing login and file system security; administering and maintaining the user and printer environment; protecting network data; and installing network applications. This course may be taken twice for credit on a different operating system. This course covers material required for software manufacturer's certification.

CISN 304 Networking Technologies 3 Units

Formerly: CIS 63

Prerequisite: CISP 301, CISC 310, CISC 320, and CISC 355, all with grades of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides a comprehensive survey of local and wide area networks, technologies, protocols, and connectivity. Topics covered include network topologies, the Open Systems Interconnection seven-layer model for communication, communication protocols and standards, access methods, and data translation and transmission equipment and media. This course is intended to prepare students for the COMPTIA N+ industry certification.

CISN 305 Managing a Windows Network Environment 3 Units

Prerequisite: CISN 302 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with knowledge and skills necessary to administer, manage, support, and troubleshoot information systems that incorporate medium to large Windows networks. The student will learn to create, configure, and manage file, print, and web resources; manage data storage; create shared resources and configure access rights; monitor and manage network security; configure and troubleshoot TCP/IP on servers and client computes; monitor and troubleshoot server health and performance; deploy software by using Group Policy; and implement and troubleshoot Terminal Services.

CISN 306 Advanced Network Systems Administration 3 Units

Formerly: CISN 106, CIS 82

Prerequisite: CISN 302 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the administration of a server in an enterprise network. Topics include designing an enterprise network; optimizing network servers for enterprise-related roles; managing enterprise users, groups and resources; planning and implementing connectivity to other networks within the enterprise; server and network optimization; and troubleshooting techniques at the enterprise level. This course covers material required for the Microsoft Networking examinations.

CISN 308 Internetworking with TCP/IP 3 Units

Formerly: CISN 108, CIS 84

Prerequisite: CISN 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the implementation of the TCP/IP protocol suite in an enterprise network. Topics include installing, configuring, and testing TCP/IP; planning and implementing sub-networks; managing IP address assignments and IP routing; installing and configuring DNS; TCP/IP network printing; troubleshooting the network with TCP/IP utilities; and planning for IPv6.

CISN 315 Advanced Network Administration 2 Units

Formerly: CIS 61

Prerequisite: CISN 303.
General Education: AA/AS Area D2
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
This course covers topics necessary for an experienced network administrator to monitor, maintain, and improve the performance of an existing Local Area Network (LAN). This course covers part of the material required for software manufacturer's certification. This course may be twice for credit on a different operating system.

CISN 320 Designing Windows Directory Services 3 Units

Prerequisite: CISN 306 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and skills necessary to design a Microsoft Windows directory services infrastructure in an enterprise network. Topics include: implementing group policies, Windows Internet Naming System (WINS), Domain Name Systems (DNS), Dynamic Host Configuration Protocol (DHCP), Routing and Remote Access (RRAS) and server placement in a network infrastructure. Also included are the design of an Active Directory structure for an enterprise; the development a plan to secure and delegate administrative authority over Active Directory; the design of a site topology for a multi-domain organization; and the design of an Active Directory replication plan based on the site topology design.

CISN 322 Designing a Secure Windows Network 3 Units

Prerequisite: CISN 306 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks using Microsoft Windows technologies. Emphasis is on secure access to local network users, to remote users and remote offices, and between private and public networks. Topics include: group policy, site topology, Virtual Private Networks (VPNs), e-commerce, printer security, and security for non-Microsoft clients.

CISN 324 Designing Windows Networking Services 3 Units

Prerequisite: CISN 308 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and skills necessary to create a networking services infrastructure design that supports the required network applications. Each module provides a solution based on the needs of the organization. The course includes designing and planning for Dynamic Host Configuration Protocol (DHCP), Domain Name Service (DNS) Internet Protocol (IP) address configuration, routing solutions using Open Shortest Path First (OSFP) and Internet Group Management Protocol (IGMP), Internet connectivity design using Network Address Translation, Internet connectivity using Microsoft Proxy Server 3.0, remote access connectivity; and a management strategy for networking services.

CISN 370 Web Server Administration 3 Units

Formerly: CISN 170, CIS 86

Prerequisite: CISN 308 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers web server installation and administration for the Internet and intranets. Topics include the installation, configuration, management, and tuning of web servers; WWW and FTP services; security features; on-line transaction processing; and web site optimization.

CISN 374 Messaging Server Administration 3 Units

Formerly: CIS 87

Prerequisite: CISN 302.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course covers the installation and administration of messaging servers. Topics include the installation, configuration, management, and tuning of mail and messaging services on both servers and clients, mail access protocols, security issues and Internet connectivity.

CISN 378 Database Administration for Microsoft SQL Server 3 Units

Prerequisite: CISN 302 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course provides students with the knowledge and technical skills required to install, configure, administer, and troubleshoot the client/server database management system of Microsoft SQL Server. The students will also learn to manage files and databases; choose and configure a login security method; plan and implement database permissions; secure SQL Server in an enterprise network; perform and automate administrative tasks; create custom administrative tools; monitor and optimize SQL Server performance; and replicate data from one SQL Server to another.

Computer Info Science - Programming (CISP)

CISP 301 Algorithm Design and Implementation 4 Units

Prerequisite: CISC 310 with a grade of "C" or better or equivalent.
Corequisite: CISC 310
Advisory: High school algebra.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides an introduction to the analysis, design, and implementation of software solutions to business-related problems. An overview of the following topics will also be included: main and cache memory, data representation, two's- complement addition and subtraction, instruction processing by the central processing unit, computer programming languages, and the software development process.

CISP 310 Assembly Language Programming for Microcomputers 4 Units

Formerly: CIS 35A

Prerequisite: CISP 360 and CISP 301 with grades of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC (CISP 310 or CISP 318, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
This is an introductory course in assembly language for the Intel family of microprocessors. Students will write and debug programs that use control structures, subprocedures, bit operations, interrupts, arrays, and recursion. Upon completion of the course, students will have a thorough and complete understanding of the internal operations of computers.

CISP 318 Assembly Language Programming, IBM Mainframe 4 Units

Formerly: CIS 35

Prerequisite: None
Advisory: One high-level programming language.
Acceptable for credit: UC (CISP 310 or CISP 318, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
This course is an in-depth study of the IBM mainframe assembly language. The course includes a study of system architecture, storage dump analysis, fixed-point, decimal, floating-point instructions, and macros. Students are required to prepare programs that involve editing, bit manipulation, array processing, and external sub-routines.

CISP 320 COBOL Programming 4 Units

Formerly: CIS 36A

Prerequisite: CIS 301 with a grade of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to the COBOL programming language. Course elements include top-down design and structured programming methods. Laboratory assignments cover a variety of input/output techniques including data validation, arithmetic operations, output editing, array processing, control-break concepts, and the creation and update of sequential files.

CISP 321 Advanced COBOL Programming 4 Units

Formerly: CIS 36B

Prerequisite: CISP 320 with a grade of "C" or better or equivalent.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course presents advanced programming techniques using the COBOL programming language. Topics include sequential and index-sequential file maintenance, advanced sorting operations, data string manipulation, variable length record processing, program calls and subroutines, and the development of interactive applications.

CISP 342 Structured Programming with FORTRAN 4 Units

Formerly: CIS 33A

Prerequisite: CISP 301 with a grade of "C" or better.
Advisory: MATH 120.
General Education: AA/AS Area D2 and Math Competency
Acceptable for credit: UC (CISP 342 or ENGR 405, maximum one course)/CSU
54 hours Lecture; 54 hours Laboratory
FORTRAN (formula translation) is an automatic coding system that allows the engineer, scientist or technician to utilize a computer for problem solving. Structured programming will be emphasized, dividing big jobs into smaller tasks to make them easier to solve. The student will design, code, test, and debug many FORTRAN programs.

CISP 350 Database Programming 3 Units

Formerly: CIS 37

Prerequisite: CISC 300 and CISA 320.
Advisory: CISA 321.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory course to programming in database. The topics include analysis and design, modular programming, screen displays and menus, and multiple database. This course may be taken three times for credit on a different software package or version.

CISP 360 Introduction to Structured Programming 4 Units

Formerly: CIS 32A

Prerequisite: CISP 301 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to structured programming. Topics include program design, use of variables, flow control, constants, libraries, arrays, functions, arguments, external variables, and input/output. Objects may be introduced.

CISP 365 Structured Programming with Pascal 4 Units

Formerly: CIS 31

Prerequisite: None.
Advisory: MATH 120.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is recommended as the first computer programming course. The Pascal programming language emphasizes the concepts of structured programming, dividing big jobs into smaller tasks to make them easier to solve. The student will design, write, test, and run several Pascal programs.

CISP 370 Beginning Visual BASIC 4 Units

Formerly: CIS 38

Prerequisite: CISP 301 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to object oriented/event driven programming in a Windows environment. Topics include buttons, boxes, graphics, data handling, error handling, control, and form handling. This course will enable students to understand object oriented programming concepts such as form, methods, projects, and modules and to design useful Windows layouts.

CISP 371 Intermediate Visual BASIC 4 Units

Prerequisite: CISP 370, with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course covers the study of intermediate and advanced object oriented programming using Visual BASIC. The student will learn about multiple document interface (MDI), advanced error handling, creating classes, collections and client-server architecture. Topics include: data access, application programming interface (API), and application configuration management.

CISP 400 Object Oriented Programming with C++ 4 Units

Formerly: CIS 32B

Prerequisite: CISP 360 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to object oriented programming using C++. Topics include differences between C and C++ including declarations, constants, operators, function calling by value and reference, strict type checking; function members and 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 D2
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to object oriented programming using the JAVA language. The student will learn how to look at data and its relationships to functions that operate data. Topics will include: forms, components, properties, classes, event processing, objects, dynamic static relationships, databases, data sets, queries, hierarchies, inheritance, function overloading, polymorphism, coding, dialog boxes, associations, testing and debugging.

CISP 430 Data Structures 4 Units

Formerly: CIS 40

Prerequisite: CISP 400 or CISP 401 with a grade of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course applied a case study approach which incorporates techniques for systematic problem analysis, program specification, design, coding, testing, debugging and documentation of large programs. Advanced language features related to strings, non-text files, pointers, recursion, and object oriented programming methodology are covered. Data structures include stacks, queues, trees, and lists. Searching and sorting techniques are discussed.

CISP 440 Discrete Structures for Computer Science 3 Units

Formerly: CIS 44

Prerequisite: None
General Education: AA/AS Area D2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces the essential discrete structures used in computer science with emphasis on their applications. Topics to be covered include: elementary formal logic and set theory, elementary combinatorics, recursive programming and algorithm analysis, digital logic and switching and combinatorial circuits, and computer arithmetic. Computer programming assignments will be included.

CISP 452 Introduction to Systems Programming 3 Units

Formerly: CIS 45

Prerequisite: CISP 400, with a grade of "C" or better.
Advisory: C structured programming language experience.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to systems programming concepts using the C language. The course covers features of the C language commonly used in systems programming, and the application of those features to systems programming in a Unix/Linux environment. Topics include C preprocessor macros; I/O and bit manipulation facilities; basic time sharing system concepts; file permissions, shells and shell script programming; make files and source code control systems; basic system calls include fork and exec; and relocation and linking concepts including assembler handling of symbol tables. Knowledge of the C language and data structures is required.

CISP 457 Computer Systems Analysis and Design 3 Units

Formerly: CIS 51

Prerequisite: CISP 301 and any of the following: CISP 360,CISP 400, CISP 342, CISP 320, CISP 321, CISP 370, CISP 401, CISP 371, with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 18 hours Laboratory
This course covers the analysis of the computer needs of a client, the design of computer application system solutions, and the documentation needed to convert a new system from the design phase to the operational phase.

Computer Information Science - Security (CISS)

CISS 300 Introduction to Information Systems Security 1 Unit

Prerequisite: None
General Education: AA/AS Area D2
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course provides an introduction to network-based and Internet-based security applications and standards. Topics include cryptography, security protocols, network security applications, encryption, hash functions, digital signatures, viruses and key exchange. Some experience and/or courses in networking is recommended prior to taking this course.

CISS 310 Network Security Fundamentals 3 Units

Prerequisite: CISN 304 or CISN 300 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
Organizations today are linking their information systems across enterprise-wide networks and Virtual Private Networks, as well as increasing their exposure to the Internet. Each connection magnifies the vulnerability to unauthorized access. This course provides the fundamental knowledge needed to analyze risks to the system and implement a workable security policy that protects information assets from potential intrusion, damage or theft. Students will learn which countermeasures to deploy to thwart potential attacks. This course will also prepare students for CompTIA's Security+ Exam.

CISS 320 Implementing Network Security and Counter Measures 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
With the growing reliance on e-commerce, network-based services and the Internet, organizations are faced with an ever-increasing responsibility to protect their systems from attack. Internet Detection Systems (IDS) are the latest and most powerful tools for identifying and responding to network- and host-based intrusions. Students will research network and operating system exploits, and deploy the proper countermeasures. Virtual Private Networks (VPN) are countermeasures which provide a significant cost savings by allowing remote users and multiple sites to securely communicate across a public network. A thorough understanding of the many standards and technologies available is essential for a successful VPN implementation. In this course, students will gain the knowledge required to evaluate, implement and manage secure remote-access technologies.

CISS 330 Implementing Internet Security and Firewalls 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
With the increased connectivity to the Internet and the wide availability of automated cracking tools, organizations can no longer simply rely on operating system security to protect their valuable corporate data. The firewall has emerged as a primary tool used to prevent unauthorized access. Students will learn how to allow access to key services while maintaining your organization's security, as well as how to implement firewall-to-firewall Virtual Private Networks (VPNs). This course will aid students in preparing for Check Point Security's "Check Point Certified Security Administrator" (CCSA) certification.

CISS 341 Implementing Windows Operating System Security 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
As organizations increasingly come to rely on Windows-based networks, it is essential that system administrators have a complete understanding of the security models integral to Windows Server and Workstation. This course will provide in-depth explanations of operating system security features as well as step-by-step configuration guides for proper operating system configuration. It also provides the knowledge and skills students will need to know in order to maintain the integrity, authenticity, availability and privacy of data.

CISS 342 Implementing Linux Operating System Security 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
The Linux family of operating systems is prized by developers and other IT professionals for their flexibility and openness. Vulnerabilities in standard configurations, however, can make Linux systems susceptible to security threats. For the many organizations that depend upon Linux systems, protection against intrusion is an absolute requirement. This course provides the knowledge and skills needed to establish security for the Linux platform. It will present in-depth explanations of operating system security features as well as step-by-step configuration guides for proper operating system configuration. This course also will cover the knowledge and skills students will need to maintain the integrity, authenticity, availability and privacy of data.

CISS 350 Disaster Recovery 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course presents methods to identify vulnerabilities and implement appropriate countermeasures to prevent and mitigate failure risks for the business enterprise. This course covers but is not limited to an understanding of what disaster recovery is, development of a disaster recovery plan and development and implementation of Policies and Procedures.

CISS 360 Computer Forensics and Investigation 3 Units

Prerequisite: CISS 310 with a grade of "C" or better.
Acceptable for credit: CSU
45 hours Lecture; 27 hours Laboratory
This course is an introduction to the methods used to properly conduct a computer forensics investigation beginning with a discussion of ethics, while mapping to the objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered but are not limited to an overview of computer forensics as a profession; the computer investigation process; understanding operating systems boot processes and disk structures; data acquisition and analysis; technical writing; and a review of familiar computer forensics tools.

Computer Info Science - Web (CISW)

CISW 300 Web Publishing 3 Units

Formerly: CIS 22

Prerequisite: None
Advisory: CISC 300 or CISC 310 and CISC 305, or CISC 306, all with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to publishing on the World Wide Web (WWW). Topics include creating Web pages with markup languages, including XHTML, file management for the Web, and uploading files via File Transfer Protocol (FTP) to a Web server. The course includes coding with markup languages, cascading style sheets, an introduction to scripting, the use of images and other media on the Web, and interactive tools like forms and image maps. This course prepares apprentice Web designers and publishers to identify the information dissemination needs of a client, design an appropriate WWW solution, and implement it.

CISW 310 Advanced Web Publishing 4 Units

Formerly: CIS 23

Prerequisite: CISW 300 with a grade of "C" or better.
Advisory: CISP 301 with a grade of "C" or better.
Acceptable for credit: CSU
72 hours Lecture
This course builds upon previous Web publishing concepts and study. Topics include cascading style sheets, dynamic HTML, forms, client-side programming with JavaScript, CGI scripting with Perl, and Web-database interactivity. The primary focus of this course is the systematic development of interactive Web sites.

CISW 351 Graphics for the Web (Same as GCOM 360) 3 Units

Formerly: CIS 21W

Prerequisite: GCOM 330 with a grade of "C" or better.
Advisory: CISC 306 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course takes an indepth look at designing for the Web. Using industry standard graphic software, students will create original graphics as well as manipulate found imagery. Through lecture, demonstration, hands-on methods, and class/instructor critiques, students will understand the process for designing graphics for Web use. Topics include developing graphic elements for a Web site using a visual theme, creating buttons and intuitive navigational elements, making background textures and images, understanding Web file formats, scanning, presenting to a client, and simple animation that enhances a Web site. This course may be taken twice for credit on a different platform.

CISW 370 Designing Accessible Web Sites 1 Unit

Prerequisite: CISW 300 with a grade of "C" or better, GCOM 361 with a grade of "C" or better, or equivalent experience designing Web pages.
Advisory: Prior experience designing Web pages with any markup language, such as hypertext markup language (HTML).
Acceptable for credit: CSU
18 hours Lecture
This course provides an overview of the methods that are used to design Web sites for people with disabilities. Current legal requirements for accessible Web sites, especially the Americans with Disabilities Act (ADA) are emphasized.

CISW 400 Client-side Web Scripting 4 Units

Prerequisite: CISW 300 with a grade of "C" or better.
Advisory: CISW 310 and CISP 301.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course emphasizes the creation of dynamic and interactive Web sites using a client-side scripting language such as JavaScript. Topics include the Document Object Model of 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 or any high level programming language.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture
This course introduces Macromedia Flash! users to programming with ActionScript, including using ActionScript to animate, process data, create dynamic content, and manipulate components. The course emphasizes the object-oriented capabilities of Macromedia Flash!, and teaches students how to use ActionScript objects, methods, events, properties, and functions, with an eye toward ActionScript best practices.

CISW 410 Middleware Web Scripting 4 Units

Prerequisite: CISW 300 with a grade of "C" or better.
Advisory: CISW 310 and CISP 301 with grades of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course emphasizes the creation of interactive Web sites using a middleware Web scripting environment such as PHP or ASP. 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, and database driven Web applications. This course may be taken twice in a different middleware Web scripting environment.

CISW 420 Server-side Web Scripting 4 Units

Prerequisite: CISW 300 with a grade of "C" or better.
Advisory: CISP 301 or any high level programming language and CISW 310.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course emphasizes the creation of interactive web sites using a server-side scripting language such as Perl or Java. Topics include core features of the server-side scripting language, control structures, functions, arrays, form validations, regular expressions, cookies, environmental variables, email applications, and database-driven web applications. This course may be taken twice with a different server-side scripting language.

CISW 470 Web Team Projects 3 Units

Prerequisite: CISW 410 or CISW 420 or GCOM 363 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course focuses on Web development in a team setting. Emphasis will be placed on the project development life cycle including design specification, research, production, modification, and presentation. Web projects assigned in the class will be multifaceted, approaching the complexity that individuals would be expected to encounter in the Web development industry. Not open to students who have completed Art New Media (ARTNM 406) at American River College.

Cosmetology

Associate in Science Degree

Career Certificate

Art and Science of Nail Technology, Certificate of Completion

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Career Opportunities

Cosmetologists are employed in every community. Many are self-employed, while others are employed in large and small establishments. It is a lucrative field for both men and women. A cosmetologist may specialize and become a platform stylist, color technician, or shop manager.

Recommended High School Preparation

Art, physiology, chemistry, English and math.

Program Information

The course of study for Cosmetology is approved by the Board of Barbering and Cosmetology and is planned to train students to become cosmetologists and, at the same time, complete the requirements for a Career Certificate. The instruction requires 1600 hours of cosmetology classes in order to be eligible to take the California State Examination for licensure. The training covers all of the required operations such as cold waving, manicuring, hair styling, hair tinting, and facial work. Cosmetology related subjects are taught as part of the curriculum.

Program Costs

Approximately $750 is needed at the beginning of the first semester for personal supplies and materials (text books, uniforms, and work kits, etc.). Students must have the required kits and uniforms on the first day of COSM 110 and COSM 111 (failure to meet this requirement will result in student being dropped from the program for that semester). Kits and textbooks are available at the College Store. If these costs create a financial burden, students should consult the Financial Aid Office for possible assistance prior to enrollment.

Admission to Program

A. COSM 100 must be satisfactorily completed in the semester prior to enrollment in either the Art & Science of Nail Technology or Cosmetology options. Perfect attendance is mandatory for successful completion of COSM 100.

B. Transfer students from another Cosmetology program (public or private) must have a withdrawal form from the Board of Barbering and Cosmetology or evaluation papers from the Barbering and Cosmetology Program (for out-of-state training). All students will be considered under lab station availability basis. Equivalency of comparable theory and practice of all transfer students will be determined by examination and department staff review.

Required Program **Units**

COSM 100, Introduction to Cosmetology 1.5

This two-week session course is offered two times per year and must be completed before enrollment in the following courses:

First full semester:

COSM 110, Beginning Theoretical Knowledge..... 5
COSM 111, Beginning Practical Skills 10

Second full semester:

COSM 120, Intermediate Theoretical Knowledge..... 5
COSM 121, Intermediate Practical Skills 10

Third full semester:

COSM 130, Advanced Theoretical Knowledge 5
COSM 131, Advanced Practical Skills 10

Total Units Required **46.5**

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.

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better. The Cosmetology Career Certificate is covered in three semesters requiring attendance in Cosmetology classes for 32.5 hours a week.

Art & Science of Nail Technology

Certificate of Completion, Level 3

This is a one-semester program offering beginning, intermediate, and advanced training in manicuring. At the end of the program, the student will have learned the Art and Science of Nail Technology. The theoretical and operational requirements will enable them to pass the California Examination in Manicuring. The program will include: professional image, basic procedures for manicuring (hand and arm massage), basic procedures for pedicure (foot and leg massage), acrylic nails, nail tip and wraps, gel nails (light and no-light cured), airbrushing, nail art and design, nail salon business.

Required Course

COSM 150 ..... 16 units

Students who fail to complete the necessary hours for the State Board of California Barbering and Cosmetology programs licensure while taking COSM 150 (due to excessive absences) may take COSM 151 for supplemental Nail Technology practical hours.

COSM 100, Introduction to Cosmetology, is a required prerequisite course for COSM 150 and is offered as a two-week session course two times per year. See your counselor or the Schedule of Classes for more information.

Certificate of Completion
The certificate may be obtained by completion of the required course with a grade of "C" or better.

Cosmetology (COSM)

COSM 100 Introduction to Cosmetology 2 Units

Formerly: COSM 53

Prerequisite: None
40 hours Lecture
Students will receive training in customer relations and professional behavior and appearance. The course also includes an introduction to the basic skills in Cosmetology course work. A final grade of "C" or better is necessary to move on to COSM 110 and 150.

COSM 110 Related Technical Knowledge of the Basic Fundamental Skills 5 Units

Formerly: COSM 54

Prerequisite: Completion of COSM 100 with a grade of "C" or better.
Corequisite: Concurrent enrollment in COSM 111.
90 hours Lecture
This course provides instruction of technical and theoretical knowledge which directly relates to the basic skills of all practiced operational phases of Cosmetology. The course material includes Bacteriology, Decontamination, Hairstyling, Haircutting, Hair Structure, Massage, Nail Structure, Nail Diseases and Disorders, PH Scale, Permanent Waving, Color Wheel, Hair coloring, and Hair lightening.

COSM 111 Basic Foundation of Practical Skills 10 Units

Formerly: COSM 55

Prerequisite: Completion of COSM 110 with a grade of "C" or better.
Corequisite: Concurrent enrollment in COSM 110.
464 hours Laboratory
This course provides instruction for those persons interested in becoming licensed cosmetologists. Individual instruction is given in practical application of the basic skills needed. Emphasis is placed on basic hair coloring, permanent waving, hair styling, hair cutting, manicuring, facials, and make-up. Also covered in the course is the transferring of basic training to intermediate and advanced levels in hairstyling, shaping thermal curling and hair straightening.

COSM 120 Intermediate Certificate Course Theory 5 Units

Formerly: COSM 63

Prerequisite: COSM 110 and 111 with a minimum grade of "C" or better.
Corequisite: Concurrent enrollment in COSM 121.
Advisory: Concurrent enrollment in COSM 121, as the lab.
90 hours Lecture
This course provides instruction in theoretical knowledge which relates to intermediate and advanced levels in all phases of Cosmetology (anatomy, hair styling, cold waving, manicuring, facials, hair coloring, scalp treatment reconditioning, hair cutting, thermal pressing and curling). This course may not be repeated for credit.

COSM 121 Intermediate Certificate Course - Laboratory 10 Units

Formerly: COSM 64

Prerequisite: COSM 110 and 111 with grades of "C" or better, but students must take and pass COSM 100 with a grade of "C" or better and not exceed 500 hours when transferring from any cosmetology school.
Corequisite: Concurrent enrollment in COSM 120.
540 hours Laboratory
This course provides instruction in technical knowledge which relates to intermediate and advanced levels in all phases of cosmetology (anatomy, hair styling, cold waving, manicuring, facials, hair coloring, scalp treatment reconditioning, hair cutting, thermal pressing and curling). This course may not be repeated for credit.

COSM 130 Advanced-Certificate Course - Theory 5 Units

Formerly: COSM 73

Prerequisite: COSM 120 and 121 with grades of "C" or better. Five hundred hours from an accredited school of Cosmetology and successful completion of a practical and written entrance examination process will be considered the equivalent of COSM 120 and 121, but students must take and pass COSM 100 if transferring from any cosmetology school.
Corequisite: Concurrent enrollment in COSM 131.
90 hours Lecture
This course encompasses all areas of the theoretical portion of cosmetology which directly relates to the Board Examination. It is designed for the senior student who will enter the business world at the end of the semester. Special emphasis is placed on professionalism, salon management, the Cosmetology Act, and State Board rules and regulations. Transfer students must schedule the entry assessment for placement with the Cosmetology staff.

COSM 131 Advanced-Certificate Course - Laboratory 10 Units

Formerly: COSM 74

Prerequisite: COSM 120 and 121 with grades of "C" or better, but students must take and pass COSM 100 with a grade of "C" or better and not exceed 500 hours when transferring from any cosmetology school.
Corequisite: Concurrent enrollment in COSM 130.
540 hours Laboratory
This course encompasses all areas of the practical portion of cosmetology which directly relates to the Board Examination. It is designed for the senior student who will enter the business world at the end of the semester. Special emphasis is placed on professionalism, salon management, the Cosmetology Act, and State Board rules and regulations.

COSM 140 Supplemental Training 1-5 Units

Formerly: COSM 92

Prerequisite: COSM 131 with a grade of "C" or better.
270 hours Laboratory
The course provides training in current trends in hair styling, advanced hair coloring, and cold waving. It also satisfies the requirements for out-of-state candidates who apply for a California Cosmetology license.

COSM 141 Skills Building for Cosmetology **3 Units**

Formerly: COSM 90

Prerequisite: COSM 110 and 111 with grades of "C" or better.
162 hours Laboratory
This course provides practice in the following salon services: Wet hairstyling; Thermal hairstyling; Press and Curl; Perm waving; Chemical Straightening; Hair Cutting; Hair Coloring and Bleaching; Scalp & Hair Treatment; Manual Electrical and Chemical facials; Brow Arch & Wax; Make Up; Manicuring and Pedicuring and Nail Wraps, Tips and Repairs. This course also develops problem solving techniques in the services that require chemical treatment.

COSM 150 Art and Science of Nail Technology **16 Units**

Formerly: COSM 60

Prerequisite: Completion of COSM 100 with a grade of "C" or better.
198 hours Lecture; 270 hours Laboratory
This is a one-semester course offering beginning, intermediate and advanced training in manicuring. At the end of the course, the student will have learned the Art and Science of Nail Technology. The theoretical and operational requirements will enable them to pass the California Examination in Manicuring. The course will include professional image, basic procedures for manicuring (hand and arm massage), basic procedures for pedicure (foot and leg message), acrylic nails, nail tip and wraps, gel nails (light and no-light cured), airbrushing, nail art and design, and nail salon business.

COSM 151 Art and Science of Nail Technology-Supplemental Hours **5 Units**

Formerly: COSM 61

Prerequisite: COSM 150 with a grade of "C" or better.
60 hours Lecture; 90 hours Laboratory
COSM 151 is the sequential course of COSM 150. This is the optional course for supplemental hours in COSM 150 that have not been completed in one semester. This course will include a review of: professional image, basic procedures for manicuring (hand and arm massage), basic procedures for pedicure (foot and leg massage), acrylic nails, nail tip and wraps, gel nails (light and no-light cured), airbrushing, nail art and design, nail salon business. Completion of either COSM 150 or 150 plus 151 (depending on hours of attendance) enables the student to take the State Board Examination for licensure.

COSM 160 Skin Care **1 Unit**

Formerly: COSM 81

Prerequisite: None
13.5 hours Lecture; 13.5 hours Laboratory
This course covers the basics of skin care, facials, product availability and critique of those products now on the market. This class will address the demanding needs of industry. It is for entry level only and not recommended for licensed Estheticians.

COSM 294 Topics in Cosmetology **.5-4 Units**

Formerly: COSM 80

Prerequisite: None
18 hours Lecture; 54 hours Laboratory
This course reviews the latest Cosmetology State exam testing subjects and procedures that are revised at least twice a year. This course may be taken three times for credit provided there is no duplication of topics.

Dental Assisting D AST

Associate in Science Degree

Career Certificate (One year plus one Summer)

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

This program prepares the student for employment as a dental assistant. The dental assistant works with the dentist in providing patient treatment, including restorations, x-rays and preventive services. Employment opportunities are excellent, not only in private dental offices, but also in public and private hospitals; clinics and laboratories; dental schools; dental supply houses; and, in the armed forces.

Program Information

The dental assisting program, 26.5 units, is a full-time day program to which students are admitted in August of each year. The curriculum is approved by the Commission on Dental Accreditation of the American Dental Association and leads to a Career Certificate in Dental Assisting. After successful completion of the curriculum the student is eligible to take the National Board Examination and upon passing becomes a Certified Dental Assistant. This evidence of competence is recognized throughout the United States. In addition, graduates will be able to apply for and take the Dental Board of California examination for state licensure as a Registered Dental Assistant. In addition to normal student expenses (for textbooks, etc.), the Dental Assisting Program requires an expenditure of approximately $1,800 during the one-year program for uniforms and special supplies. If this creates a hardship, check with the Financial Aid Office for possible assistance before entering the program.

The program is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653 or at 211 East Chicago Avenue, Chicago, Illinois 60611.

Program Eligibility

To be eligible for the dental assisting program, the applicant must satisfy one of the following:

1. Successful completion of an English Reading class which is equal to or greater than ENGRD 11 or ESLR 310 OR
2. Eligibility to enroll in ENGRD 110 or ESLR 320.

Proof of eligibility can be obtained by either (1) submitting an official college transcript indicating the successful completion of an appropriate level English Reading class or (2) submitting the results of assessment testing which verifies placement in an appropriate level English Reading class.

High school or college grade point averages are not used to establish eligibility for the dental assisting program.

Enrollment Process

1. Send application and proof of eligibility directly to the Dental Health Office.

2. Applications will be accepted after January 1. To be eligible, applicants must have both their application and proof of eligibility in to the Dental Health Office. Eligible applicants will be selected for enrollment based on the date the completed application and proof of eligibility are received in the Dental Health Office.

   After the class has filled, other eligible applicants will be placed on an alternate list according to the date their application and proof of eligibility arrived in the Dental Health Office. As positions become available, eligible applicants will be taken off this list in chronological order. Eligible applicants may be selected for enrollment up to the first day of class in the Fall.

Required Program	Units
DAST 101, Biodental Science	2
DAST 104, Anatomy and Morphology	3
DAST 102, Chairside Assisting I	6
DAST 107, Dental Radiology I	2
DAST 116, Practice Management for Dental Assisting	2
DAST 111, Dental Nutrition and Prevention	1
DAST 115, Coronal Polishing	1.5
AH 104, Aging and Its Implications for Health Care	0.5
DAST 112, Chairside Assisting II	2.5
DAST 117, Dental Radiology II	1
DAST 119, Clinical Experience I	3
DAST 129, Clinical Experience II (Summer Session)	2
Total Units Required	**26.5**

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.

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

General education requirements may be completed either before or after completing the sequence of dental assisting courses listed above.

Dental Assisting (DAST)

DAST 101 Biodental Science 2 Units

Formerly: DAST 50

Prerequisite: Enrollment in the Dental Assisting Program.
36 hours Lecture
Biodental Science deals with microbiology and asepsis, dental pathology, sterilization, pharmacology, medical emergencies, and hazardous materials in the dental practice.

DAST 102 Chairside Assisting I 6 Units

Formerly: DAST 57

Prerequisite: Enrollment in the Dental Assisting Program.
72 hours Lecture; 108 hours Laboratory
Dental Assisting 102 is an introduction to chairside dental assisting and the principles of four-handed dentistry, including materials and instrumentation. In this course, emphasis is given to step-by-step procedures and the function, use, and care of dental equipment and the dental operatory. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DAST 104 Anatomy and Morphology 3 Units

Formerly: DAST 51

Prerequisite: Enrollment in the Dental Assisting Program.
54 hours Lecture
Dental Assisting 104 is the study of dental morphology including the form, function, and location of the hard and soft structures of the mouth. In addition the course also studies the anatomy and physiology of the head and neck as it relates to the practice of dentistry.

DAST 107 Dental Radiology I 2 Units

Formerly: DAST 58

Prerequisite: Enrollment in the Dental Assisting Program.
18 hours Lecture; 54 hours Laboratory
Dental Radiology I is an introduction to the basic principles of dental radiology including theory and techniques, operation of the x-ray machine, safety practices, darkroom procedures, and exposing, processing, mounting, and evaluation of dental films.

DAST 111 Dental Nutrition and Prevention 1 Unit

Formerly: DAST 65

Prerequisite: Completion of DAST 101 with a grade of "C" or better.
12 hours Lecture; 36 hours Laboratory
Dental Assisting 111 is the study of nutrition from both a whole body concept and its interrelated effects on the dental environment. The course will integrate these concepts into preventive dentistry concepts and the role of the Dental Assistant in community/public health involvement.

DAST 112 Chairside Assisting II 2.5 Units

Formerly: DAST 67

Prerequisite: DAST 102 with a grade of "C" or better.
24 hours Lecture; 72 hours Laboratory
The course entails the study of practical applications of advanced four-handed dental techniques. Instruction in California's "Expanded Duties" is a part of the course.

DAST 115 Coronal Polishing 1.5 Units

Formerly: DAST 66

Prerequisite: DAST 102 with a grade of "C" or better.
72 hours Laboratory
Dental Assisting 115 covers the practical application of coronal polish techniques in the clinical setting.

DAST 116 Practice Management for the Dental Assistant 2 Units

Formerly: DAST 60

Prerequisite: Enrollment in the Dental Assisting Program.
36 hours Lecture
Practice Management for the Dental Assistant includes the principles of dental office management including: secretarial procedures, record keeping, dental histories, financial arrangements, bookkeeping and insurance procedures, patient communications, patient psychology, and job finding skills.

DAST 117 Dental Radiology II 1 Unit

Formerly: DAST 68

Prerequisite: DAST 107 with a grade of "C" or better.
12 hours Lecture; 36 hours Laboratory
Dental Radiology II covers advanced principles of dental radiography including special techniques and clinical application of procedures involved in exposing, processing, evaluating, and interpreting dental radiographs.

DAST 119 Clinical Experience I 2 Units

Formerly: DAST 69

Prerequisite: Completion of DAST 102 with a grade of "C" or better.
240 hours Laboratory
This course involves performance of dental assisting duties in an assigned dental clinic or private office during a full-time (40 hours/week) clinical affiliation of six weeks. Students will meet for six hours of seminar. This course is graded on a credit/no-credit basis.

DAST 129 Clinical Experience II 2 Units

Formerly: DAST 79

Prerequisite: Successful completion of DAST 112 with a grade of "C" or better.
144 hours Laboratory
This course involves performance of basic dental assisting duties as well as expanded duties in an assigned dental clinic or private office during 144 hours of clinical affiliation to be arranged. Students will meet for three hours of seminar. This course is graded on a credit/no-credit basis.

Dental Hygiene D HYG

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

This program prepares the student for employment as a dental hygienist. The registered dental hygienist is a licensed, professional, oral health educator and clinician who works under the direction and supervision of a licensed dentist to provide preventive and therapeutic services for the control of oral diseases. Dental hygienists aid individuals and groups in attaining and maintaining optimum oral and general health through provision of services such as assessment of medical and dental conditions; oral hygiene education; oral prophylaxis - the removal of plaque, calculus, and stains from the teeth; and, application of preventive agents such as fluoride and sealants. The dental hygienist may be employed in dental offices, schools, health care facilities, public health agencies, industry and educational institutions.

Recommended Preparation

High school and college preparatory courses including algebra, biology, chemistry and physiology are recommended.

Program Information

The Dental Hygiene Program consists of 82.5 units including the prerequisite requirements. It addition, the student must obtain an Associate in Science in Dental Hygiene and must satisfy all additional requirements for that degree. The program is accredited by the Commission on Dental Accreditation of the American Dental Association and has been granted the accreditation status of "approval without reporting requirements." 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 licensure examinations.

In addition to normal student expenses (tuition, books, etc.), the Dental Hygiene Program requires an expenditure of approximately $4,500 during the two-year program for uniforms, instruments and special supplies. Approximately $3,000 will be needed at the beginning of the first semester. If this creates a financial burden, students should consult the Financial Aid Office for possible assistance several months before entering the program.

Enrollment Requirements

Enrollment in the Dental Hygiene program is based on satisfactory completion of prerequisite courses with a grade 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 (Microbiology); CHEM 305 (Inorganic); and CHEM 306 (Organic) with a cumulative minimum GPA of 3.0.

FCS 340; PSYC 300; SOC 300; COMM 301; ENGWR 300, and Introduction to Dental Hygiene, DHYG 100 with a cumulative minimum GPA of 2.5.

Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA degree or higher.

Enrollment Process

Applications for enrollment and official transcripts verifying completion of prerequisite courses must arrive at the Dental Health Office no later than April 1st. Applications and/or transcripts that do not meet this requirement will not be considered.

Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not selected for program enrollment will be considered alternates.

Required Program

Prerequisite Courses	**Units**
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
CHEM 305, Introduction to Chemistry	5
CHEM 306, Introduction to Chemistry	5
BIOL 440, General Microbiology	4
FCS 340, Nutrition	3
PSYC 300, General Principles	3
COMM 301, 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	0.5

Fourth Semester (Spring)	**Units**
DHYG 149, Ethics, Jurisprudence, and Dental Hygiene Practice	2
DHYG 145, Clinical Seminar	1
DHYG 141, Clinical Dental Hygiene IV	4
AH 104, Aging and its Implications for Health Care	0.5
Total Units Required	**82.5**

Graduation Requirements
Additional courses are necessary to meet Graduation Requirements. These may include Social Sciences, Ethnic Multicultural Studies, Humanities, Language/Rationality-Communication and Analytical Thinking; Living Skills, and Competency Requirements.

Students must consult with a counselor to determine their individual educational plan.

Associate in Science (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.

Dental Hygiene (DHYG)

DHYG 100 Introduction to Dental Hygiene .5 Unit

Formerly: DHYG 51

Prerequisite: None
9 hours Lecture
This course is an introduction to the practice of Dental Hygiene. Topics include vital signs, dental terminology, infection control, study strategies, and the expectations and concerns of the dental hygiene professional.

DHYG 101 Introduction to Clinical Dental Hygiene 4 Units

Formerly: DHYG 52

Prerequisite: Enrollment in the Dental Hygiene Program and completion of BIOL 430, 431, and 440; CHEM 305 and 306 with grades of "C" or better, and with a cumulative GPA of 3.0 or better; completion of DHYG 100, FCS 340, ENGWR 300, COMM 301, PSYC 300, and SOC 300, with grades of "C" or better and a cumulative GPA of 2.5 or better; completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA degree or higher.
36 hours Lecture; 108 hours Laboratory
This course provides an introduction to dental hygiene concepts and procedures. Emphasis is placed on the assessment phase of patient care as well as on the theory and performance of basic dental hygiene instrumentation procedures.

DHYG 103 Oral Histology and Embryology 1 Unit

Formerly: DHYG 55

Prerequisite: Enrollment in the Dental Hygiene Program.
18 hours Lecture
Oral Histology is the study of microscopic tissues and structures of the oral cavity. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DHYG 104 Patient Education and Nutrition 2 Units

Formerly: DHYG 54

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
This course studies the principles and practices of preventing and controlling dental disease with emphasis on nutrition, plaque control, motivation, and chairside patient education. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc

DHYG 107 Dental Morphology 1.5 Units

Formerly: DHYG 53

Prerequisite: Enrollment in the Dental Hygiene Program.
18 hours Lecture; 27 hours Laboratory
Dental Morphology is the study of the formation, function and structure of the teeth and their supporting structures.

DHYG 109 Infection Control and Hazardous Materials .5 Unit

Formerly: DHYG 56

Prerequisite: Enrollment in the Dental Hygiene Program.
9 hours Lecture
This course emphasizes the legal and ethical aspects of infectious disease transmission and its prevention. Included is the necessary information to meet OSHA and CDC requirements for education on infection control and hazardous material management.

DHYG 111 Clinical Dental Hygiene I 4 Units

Formerly: DHYG 62

Prerequisite: Completion of DHYG 101 with a grade of "C" or better.
36 hours Lecture; 108 hours Laboratory
Dental Hygiene 111 is the clinical practice of oral prophylaxis through practical applications of procedures learned in Dental Hygiene 101. Students demonstrate various procedures and techniques on each other before applying them to patients, children over five and adults. Techniques in patient education will be practiced. The lecture includes the rationale for more difficult traditional dental hygiene skills.

DHYG 112 Periodontics I 2 Units

Formerly: DHYG 63

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
This is a course in periodontics which includes the identification of the normal periodontium and recognition of deviations from normal, the etiology and principles of periodontal disease, examination procedures, treatment, and preventive measures.

DHYG 113 Embryology-Head and Neck Anatomy 2 Units

Formerly: DHYG 65

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
This is a course of oral anatomy designed for the study of the head and neck from the standpoint of structures or group of structures in relation to their function.

DHYG 117 Dental Radiology 3 Units

Formerly: DHYG 61

Prerequisite: Completion of DHYG 101 with a grade of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course teaches the principles of dental radiology, including laboratory experience and clinical application of procedures involved in exposing, processing, interpreting, and evaluating dental radiographs. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DHYG 121 Clinical Dental Hygiene II 2 Units
Formerly: DHYG 72

Prerequisite: Prerequisite: Completion of DHYG 111 with a grade of "C" or better.
96 hours Laboratory
Dental Hygiene 121 is the continued clinical experience in performing oral prophylaxis with wider variety of clinical cases, as well as case studies with the use of oral roentgenograms. Assignments in clinical x-ray will be provided.

DHYG 127 Dental Materials 2 Units
Formerly: DHYG 74

Prerequisite: Completion of DHYG 111 with a grade of "C" or better.
18 hours Lecture; 54 hours Laboratory
Dental Hygiene 127 is the survey of dental materials and techniques in using these materials in all phases of dentistry. This course is graded on a credit/no credit basis.

DHYG 131 Clinical Dental Hygiene III 4 Units
Formerly: DHYG 82

Prerequisite: Completion of DHYG 121 with a grade of "C" or better.
216 hours Laboratory
This course provides continued clinical experience in the provision of comprehensive dental hygiene services to a wide variety of patients with different medical and dental needs. The course focuses on progressive development of the student's skills in areas of dental hygiene assessment, diagnosis, treatment planning, preventive and therapeutic services, evaluation and time management.

DHYG 132 Periodontics II 1 Unit
Formerly: DHYG 83

Prerequisite: Completion of DHYG 112 with a grade of "C" or better.
54 hours Laboratory
In Dental Hygiene 132, students will develop clinical skills applicable in the treatment of patients with advanced periodontal disease. The course includes demonstrations and performance of tasks on appropriate laboratory materials. It also includes working with a periodontist in the clinical setting using expanded functions skills, including administration of local anesthesia and soft tissue curettage.

DHYG 134 Community Dental Health 2 Units
Formerly: DHYG 80

Prerequisite: Completion of DHYG 104 with a grade of "C" or better.
18 hours Lecture; 54 hours Laboratory
Community Dental Health is the study of the philosophy and background of community dental health with emphasis on program planning, implementation, and evaluation. This course includes practical experience implementing programs in various community settings. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

DHYG 135 Clinic Seminar .5 Unit
Formerly: DHYG 85

Prerequisite: Completion of DHYG 121 with a grade of "C" or better.
9 hours Lecture
This seminar integrates more advanced concepts and skills into the clinical experiences of the third semester dental hygiene student. Emphasis is placed on development and implementation of comprehensive patient treatment plans, identification of resources to support evidence-based patient care, and critical thinking skills.

DHYG 138 Oral Pathology 2 Units
Formerly: DHYG 84

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
Dental Hygiene 138 is the introduction to general Pathology with a special emphasis on oral Pathology.

DHYG 139 Pharmacology 2 Units
Formerly: DHYG 81

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
Pharmacology is the classification and study of drugs according to origin, physical and chemical properties, therapeutic effect and values, particularly of drugs utilized in dentistry.

DHYG 141 Clinical Dental Hygiene IV 4 Units
Formerly: DHYG 92

Prerequisite: Completion of DHYG 131 with a grade of "C" or better.
216 hours Laboratory
Dental Hygiene 141 is the continued clinical experience in performing oral prophylaxis, oral roentgenographic surveys, charting cases and patient education. The clinical experience is related to all aspects of dentistry.

DHYG 145 Clinic Seminar II 1 Unit
Formerly: DHYG 91

Prerequisite: Completion of DHYG 131 with a grade of "C" or better.
54 hours Laboratory
This course provides instruction in nitrous oxide/oxygen analgesia and caries detection. Students develop their critical thinking skills through the discussion of problems and special interest cases encountered in clinical experience. Extra time outside the normal school schedule is required for students to participate in activities such as field trips, conventions or community projects.

DHYG 149 Ethics, Jurisprudence and Dental Hygiene Practice 2 Units
Formerly: DHYG 90

Prerequisite: Enrollment in the Dental Hygiene Program.
36 hours Lecture
Ethics, Jurisprudence and Dental Hygiene Practice is the study of the fundamental factors necessary to be employed and practice within the ethical and legal framework of the California State Dental Practice Act and the code of ethics of the American Dental Hygienists' Association. Extra time outside the normal school schedule may be required for field trips, conventions, community projects, etc.

Early Childhood Education E C E

Associate in Arts Degree

Career Certificate

Certificate of Completion

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

Associate Teacher,
Certificate of Completion
Teacher, Career Certificate
Master Teacher, Degree and
Career Certificate
Site Supervisor, Degree and
Career Certificate
Early Childhood, Degree and
Career Certificate
Infant Care, Degree and Career Certificate
School Age Child Care,
Degree and Career Certificate
Family Child Care,
Certificate of Completion
School-Age Assistant Teacher,
Certificate of Completion
School-Age Associate Teacher,
Certificate of Completion
School-Age Teacher, Career Certificate
School-Age Master Teacher,
Career Certificate
School-Age Site Supervisor,
Career Certificate

Career Opportunities

This program provides preparation for employment in child development programs, public and private preschools, and children's centers. The program meets the course requirements for teachers and directors in private child development centers licensed by the California State Department of Social Services, and the Children's Center Instructional Permit issued by the Teacher Credentialing Commission for teachers in public preschools and children's centers. Upon completion of the Associate in Arts with a major in Early Childhood Education, plus the requirements for a Site Supervisor Certificate, students would be eligible for the Site Supervisor Child Development Permit. The Infant Care Option provides more focused training for those wishing to work with infants. The School Age Child Care program is designed for those desiring to work with older children. The Associate Teacher, Teacher, Master Teacher, and Site Supervisor Certificates are aligned with the Child Development Permits issued by California's Commission on Teacher Credentialing (January 1997). California law requires that teachers in state funded child care and development centers possess a Child Development Permit. The School-Age Assistant, Associate, Teacher, Master Teacher, and Site Supervisor are aligned with the new Child Development Permit Matrix. In addition, Early Childhood Education offers a Teacher Preparation Program that is articulated with California State University, Sacramento.

The following certificates and degrees (Associate Teacher, Teacher, Master Teacher, and Site Supervisor) are aligned with the Child Development Permit matrix issued by the Commission on Teacher Credentialing.

Associate Teacher

Certificate of Completion, Level 3

Required Courses	Units
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3
ECE 300, Introduction to Early Childhood Education	3
ECE 320, Principles and Practices of Early Childhood Education	4
Total Units Required	**13**

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

Teacher Certification

Career Certificate

Required Program	Units
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3
ECE 300, Introduction to Early Childhood Education	3
ECE 320, Principles and Practices of Early Childhood Education	4
ECE 321, Practices in Early Childhood Education	4
ECE 330, Infant Development, or ECE 331, The Education and Care of Infants in Group Settings, or ECE 400, The Exceptional Child, OR	
ECE 356, Programs for the School-Age Child	3
ECE 410, Health and Safety in Child Care Settings (HEED 330)	1
ECE 430, Culture and Diversity in Early Childhood Education	3
Total Units Required	**24**

Career Certificate
The requirements for the Teacher Career Certificate include completion of the required 24 units plus 16 general education units, including one course from each of the following: English, humanities, social science, and mathematics or science. Students who complete the Career Certificate and have the required career experience may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

Master Teacher

Associate in Arts Degree
Career Certificate

Required Program	Units
Includes the courses required for Teacher Certificate plus ECE 424 and one of the six-unit specialization options listed below:	
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3
ECE 300, Introduction to Early Childhood Education	3
ECE 320, Principles and Practices of Early Childhood Education	4
ECE 321, Practices in Early Childhood Education	4
ECE 330, Infant Development, OR ECE 331, Education and Care of Infants in Group Settings, OR	
ECE 400, The Child with Exceptional Needs, OR ECE 404, The Child with Special Needs,	
ECE 356, Programs for the School-Age Child	3
ECE 410, Health and Safety in Child Care Settings (HEED 330)	1
ECE 430, Culture and Diversity in Early Childhood Education	3
ECE 424, Adult Supervision:	
Mentoring in a Collaborative Learning Setting	2
Specialization (see below)	6
Total Units Required	**32**

Specializations for Master Teacher

Infant Care Specialization (6 units)	Units
ECE 330, Infant Development	3
ECE 331, The Education and Care of Infants in Group Settings	3

School-Age Care Specialization (6 units)

ECE 356, Programs for the School Age Child	3
ECE 358, Activity for the Child Six to Twelve Years	3

Art with Children Specialization (6 units)

ECE 360, Art in Early Childhood	3
One of the following:	
ARTH 300, Introduction to Art	3
ART 320, Design Fundamentals	3

Music with Children Specialization (6 units)

ECE 362, Music for Children	3
MUFHL 330, World Music: Africa, Europe, and the Middle East	3

Children's Health, Safety and Nutrition (6 units)

ECE 415, Children's Health, Safety, and Nutrition	3
FCS 340, Nutrition	3

Children with Exceptional Needs Specialization (6 units)

ECE 400, Children with Exceptional Needs, or ECE 440, Children with Special Needs	3
ECE 498, Work Experience with field placement in special education program that integrates children with special needs	1-4

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

Career Certificate
The requirements for the Master Teacher Career Certificate include completion of the required 32 units plus 16 general education units, including one course from each of the following: English, humanities, social science, and mathematics or science. Students who complete the Career Certificate and have the required career experience may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

Site Supervisor

Associate in Arts Degree
Career Certificate

Required Program

Course	Units
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3
ECE 300, Introduction to Early Childhood Education	3
ECE 320, Principles and Practices of Early Childhood Education	4
ECE 321, Practices in Early Childhood Education	4
ECE 330, Infant Development, OR ECE 331, The Education and Care of Infants in Group Settings	3
ECE 420, Administration of Child Development Centers	3
ECE 400, The Child with Exceptional Needs, OR ECE 404, The Child with special Needs, OR ECE 356, Programs for School Age Child	3
ECE 410, Health and Safety in Child Care Settings (same as HEED 330)	1
ECE 422, Advanced Coordination and Supervision of Child Development Programs	3
ECE 430, Culture and Diversity in Early Childhood Education	3
ECE 424, Adult Supervision: Mentoring in a Collaborative Learning Setting	2
Total Units Required	**35**

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

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

Early Childhood

Associate in Arts Degree
Career Certificate

Required Program

Course	Units
FCS 312, Child Development	3
FCS 314, The Child, the Family, the Community	3
ECE 300, Introduction to Early Childhood Education	3
ECE 320, Principles and Practices of Early Childhood Education	4
ECE 321, Advanced Principles and Practices	4
ECE 400, The Exceptional Child	3
ECE 410, Health and Safety in Child Care Settings (same as HEED 330)	1
Early Childhood Education 430, Culture and Diversity	3
Electives	3
Total Units Required	**27**

Suggested Electives
ECE 323, 325, 335, 342, 343, 344, 350, 356, 358, 360, 362, 415, 420, 422, 424, 498, and ENGLT 370.

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

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

Infant Care

Associate in Arts Degree
Career Certificate

Required Program

Course	Units
FCS 312, Child Development	3
FCS 314, The Child, The Family, The Community	3
ECE 300, Introduction to Early Childhood Education	3
ECE 330, Infant Development	3
ECE 331, The Child with Special Needs	3
ECE 400, The Exceptional Child	3
ECE 410, Health and Safety in Child Care Settings (same as HEED 330)	1
FCS 346/ECE 415, Children's Health, Safety, and Nutrition	3
ECE 430, Culture and Diversity	3
Total Units Required	**25**

Suggested Electives
ECE 320, 321, 323, 342, 343, 344, 360, 362, 402, 415, 420, 422, 424, 498, and ENGLT 370.

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

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

School Age Child Care

Associate in Arts Degree
Career Certificate

Required Program	Units
FCS 312, Child Development	3
FCS 314, The Child, The Family, The Community	3
ECE 320, Principles and Practices of Early Childhood Education	4
ECE 400, The Exceptional Child	3
ECE 356, Programs for the School-Age Child	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 410, Health and Safety in Child Care Settings (same as HEED 330)	1
FCS 346/ECE 415, Children's Health, Safety, and Nutrition	3
ECE 358, Activities for Six to Twelve Years	3
ECE 430, Culture and Diversity	3
Total Units Required	**29**

Suggested Electives
ECE 300, 323, 325, 335, 342, 343, 344, 358, 360, 362, 415, 420, 422, 424, 498 , and ENGLT 370.

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

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

Family Child Care

Certificate of Completion, Level 3

Required Courses	Units
ECE 305, Introduction to Family Child Care	1
FCS 312, Child Development	3
FCS 314, The Child, The Family, The Community	3
ECE 410, Health and Safety in Child Care Settings (same as HEED 330)	1
ECE 498, Work Experience in Early Childhood Education, OR ECE 300, Introduction to Early Childhood Education	1-4/3
ECE 320, Principles and Practices of Early Childhood Education, or ECE 331, Infant Education and Care of Infants in Group Settings	4/3
Total Units Required	**12-16**

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

There is no degree in Family Child Care at this time.

The School-Age Assistant, Associate, Teacher, Master Teacher, and Site Supervisor certificates are aligned with the Child Development Permits with a School-Age Emphasis issued by California's Commission on Teacher Credentialing [effective mid-2001].

The following certificates and degrees (School-Age Assistant Teacher, School-Age Associate Teacher, School-Age Teacher, School-Age master Teacher, and School-Age Site Supervisor are aligned with the School-Age Child Development Permit matrix issued by Commission on Teacher Credentialing.

School-Age Assistant Teacher

Certificate of Completion, Level 2

Career Opportunities: Individuals with the School-Age Assistant Teacher certificate will be qualified to work in school-age before-school, after-school, and other school-age child care centers that are state funded. This certificate will authorize individuals to assist in the instruction of children under the supervision of an Associate Teacher in programs serving youths up to fourteen years old.

Required Courses	Units
ECE 410, Health & Safety in Child Care Settings	1
ECE 358, Activities for the Child Six to Twelve Years	3
FCS 312, Child Development	3
Total Units Required	**7**

Students who complete the required courses for the School-Age Assistant Teacher Certificate of Completion may be eligible to apply for the Child Development Assistant Teacher Permit issued by the Commission on Teacher Credentialing.

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

School-Age Associate Teacher
Certificate of Completion, Level 2

Career Opportunities: This certificate, in addition to the experience requirements, will authorize individuals to apply for a permit that will allow them to provide instruction and supervise Assistant Teachers in programs serving youths up to age fourteen years old.

Required Courses	Units
ECE 410, Health & Safety in Child Care Settings	1
ECE 358, Activities for the Child Six to Twelve Years	3
ECE 498, Work Experience in Early Childhood Education (School-age)	2
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3

75 hours paid or 60 hours volunteer experience per unit plus 18 hours lecture. Placement must be in a school-age program.

Total Units Required 12

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

Students who complete the required courses for the School-Age Associate Teacher Certificate of Completion and have the required career experience may be eligible to apply for the Child Development Associate Teacher Permit issued by the Commission on Teacher Credentialing.

School-Age Teacher
Career Certificate
Career Opportunities: Individuals with the School-Age Teacher certificate will be qualified to work in school-age before-school, after-school, and other school-age child care centers that are state funded. This certificate, in addition to the experience requirements, will authorize individuals to apply for a permit that will allow them to provide instruction and supervise Assistant and Associate Teachers in programs serving youths up to age fourteen.

Required Program	Units
ECE 400, The Exceptional Child	3
ECE 356, Programs for School-Age Child	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 410, Health & Safety in Child Care Settings	1
ECE 358, Activities for the Child Six to Twelve Years	3
ECE 430, Culture & Diversity in Early Childhood Education	3
ECE 498, Work Experience in Early Childhood Education (School-age)	3
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3

Total Units Required 25

75 hrs. paid or 60 hrs. volunteer experience per unit plus 18 hours lecture. Placement must be in a school-age program.

Career Certificate
Completion of the 25 units shown above plus 16 General Education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Career Certificate and have the required career experience may be eligible to apply for the Child Development Teacher Permit issued by the Commission on Teacher Credentialing.

School-Age Master Teacher
Career Certificate

Career Opportunities: Individuals with the School-Age Master Teacher certificate will be qualified to work in school-age before-school, after-school, and other school-age child care centers that are state funded. This certificate, in addition to the experience requirements, will authorize individuals to apply for a permit that will allow them to provide instruction and supervise Assistant, Associate, and Teachers in programs serving youths up to fourteen years old.

Required Program	Units
ECE 400, The Exceptional Child	3
ECE 356, Programs for the School-age Child	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 410, Health & Safety in Child Care Settings	1
ECE 358, Activities for the Child Six to Twelve Years	3
ECE 430, Culture & Diversity in Early Childhood Education	3
ECE 424, Adult Supervision: Mentoring in a Collaborative Learning Setting	2
ECE 498, Work Experience in Early Childhood Education (School-age)	3
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3
Specialization units [see below]	6

Specialization options-

Literacy:
HSER 375, Tutoring Elementary Students in Reading 3
ENGLT 370, Children and Literature 3

Science:
ECE 450, Science Curriculum for School-Age Children 3
BIOL 305, Natural History 3

Dramatic Arts:
TA 300, Introduction to the Theater 3
TA 407, Children's Literature in Performance 3

75 hrs. paid or 60 hrs. volunteer experience per unit plus 18 hours lecture. Placement must be in a school-age program.

Total Units Required 33

Career Certificate
Completion of the 33 units shown above plus 16 General Education units, including one course from each of the following: English, Humanities, Social Science, and Mathematics or Science. Students who complete the Career Certificate and have the required career experience may be eligible to apply for the Child Development Master Teacher Permit issued by the Commission on Teacher Credentialing.

School-Age Site Supervisor
Career Certificate

Career Opportunities: This certificate, in addition to the experience requirements, will authorize individuals to apply for a permit that will allow them to supervise a single-site program of any size; provide instruction in programs serving children up to age fourteen; and serve as coordinator of curriculum and staff development.

Required Program	**Units**
ECE 420, Administration of Child Development Centers	3
ECE 400, The Exceptional Child	3
ECE 356, Programs for the School-Age Child	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ECE 410, Health & Safety in Child Care Settings	1
ECE 422, Coordination & Supervision of Child Development Programs	3
ECE 358, Activities for the Child Six to Twelve Years	3
ECE 430, Culture & Diversity in Early Childhood Education	3
ECE 424, Adult Supervision: Mentoring in a Collaborative Learning Setting	2
ECE 498, Work Experience in Early Childhood Education (School-age)	3
FCS 312, Child Development	3
FCS 314, The Child, The Family, and The Community	3
75 hrs. paid or 60 hrs. volunteer experience per unit plus 18 hours lecture. Placement must be in a school-age program.	
Total Units Required	**33**

Career Certificate
Students who complete the Career Certificate and have the required career experience may be eligible to apply for the Child Development Site Supervisor Permit issued by the Commission on Teacher Credentialing.

Early Childhood Education (ECE)

ECE 100 Parenting Issues: Preschool 1 Unit
Formerly: ECE 50

Prerequisite: None
18 hours Lecture
This course is designed for student-parents who have children enrolled in the Campus Preschool Center Program and other interested students. The course will focus on relevant parenting issues. The course may be taken four times for credit providing there is no duplication of topics.

ECE 102 Parenting Issues: Infant/Toddlers 1 Unit
Formerly: ECE 51

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
18 hours Lecture
This course is designed for student-parents who have children enrolled in the Infant/Toddler Center and other interested students. The course will focus on the current issues of parenting infant/toddlers. The course may be taken four times for credit providing there is no duplication of topics.

ECE 104 Parenting Workshop 1 Unit
Formerly: ECE 55

Prerequisite: None
18 hours Lecture
This course is designed for, but not limited to, student-parents of either infant/toddler or preschool children that are enrolled at the Child Development Center on campus. The course is designed to give students the opportunity to discuss, explore and learn more about how to be an effective parent, including the skills required for clear communication, setting boundaries, developing self-esteem in the child, and practicing discipline. The course may be taken four times for credit.

ECE 106 Parenting Through Participation 1 Unit
Formerly: ECE 90

Prerequisite: None
6 hours Lecture; 48 hours Laboratory
This course is designed for student-parents who have their children enrolled in the Child Development Center on campus. The focus of the course is on basic parenting skills through weekly participation at the Center (three hours per week) and lecture/workshops throughout the semester. This course may be repeated for a maximum of four units.

ECE 190 The Art of Storytelling and Expressive Listening 2 Units

Formerly: ECE 60

Prerequisite: None
36 hours Lecture
This course is a guided practicum showing how professionals can train others to make the most effective use of oral language and become familiar and comfortable with the great myths, epics, legends, and fables of the world. Time will be spent on improvisational storytelling, tandem and group storytelling, and group participation storytelling.

ECE 192 The High Scope Curriculum 1 Unit

Formerly: ECE 65

Prerequisite: None
18 hours Lecture
This course is an introduction to the Piagetian concepts of Active Learning - a process that encourages the intrinsic motivation of children to learn through a developmentally appropriate curriculum.

ECE 294 Topics in Early Childhood Education .5-4 Units

Formerly: ECE 52

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
72 hours Lecture
Designed to give students an opportunity to study topics in Early Childhood Education which are consumer or job oriented and not included in current offerings. The course may be repeated for credit providing there is no duplication of topics. The course requires 18 hours lecture or 54 hours lab for each unit of credit.

ECE 300 Introduction to Early Childhood Education 3 Units

Formerly: ECE 1

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will introduce students to the field of early childhood education, including a brief overview of the history of the field, the current status of education for young children, and a review of programs serving children from infancy through the school-age years. Beginning with an overview of approaches to education, students will look closely at an approach known as integrated education and learn and apply skills in observing young children, documenting the work of young children, and interpreting these documents in order to plan subsequent curriculum. Students will be assigned projects which require them to observe in a variety of early childhood education settings. This course will prepare students with the background and skills they will need before entry into the student teaching laboratory classes.

ECE 305 Introduction to Family Child Care 1 Unit

Formerly: ECE 19

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
18 hours Lecture
This course is an orientation to Family Child Care. It includes local regulations, health and safety, curriculum, behavior management, and business requirements of in-home child care services.

ECE 320 Principles and Practices in Early Childhood Education 4 Units

Formerly: ECE 3

Prerequisite: FCS 312 with a grade of "C" or better and current TB clearance.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
In this practicum class, students work weekly alongside a more experienced teacher in a classroom with young children and attend weekly lectures where the principles and practices behind effective education of young children are presented and discussed. Students gain experience in planning and interpreting activities with young children, in creating settings for learning within a classroom, and in guiding children's behavior. The students will be assigned to the Campus Child Development Center during specific times of the day and evening for supervised laboratory experiences. Students may also complete up to 50 percent of their lab hours at selected schools. 108 hours of laboratory experience are required for completion. A current TB test is also required.

ECE 321 Advanced Principles and Practices in Early Childhood Education 4 Units

Formerly: ECE 4

Prerequisite: ECE 320 and current TB clearance.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
In this advanced practicum class, students work alongside a more experienced teacher in a classroom with young children and attend weekly lectures where the principles and practices behind effective early childhood curriculum design and overall classroom management are presented and discussed. Students will plan and implement long-term projects with young children, applying their skills in observation, documentation, and interpretation of children's work. Assuming the role of lead classroom teacher, students will plan, provision, and supervise the overall setting for learning and demonstrate leadership in guiding children's behavior, individually and during group gatherings. Students will be assigned to the Campus Child Development Center or selected schools for supervised laboratory practicum. 108 hours of practicum experience are required for completion. A current TB test is required.

ECE 323 The Effective Parent-Teacher 3 Units

Formerly: ECE 21

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course will present material and learning experiences that assist parents and teachers in developing skills in areas of discipline and behavior with young children. Alternative approaches to handling behavior problems will be reviewed and discussed.

ECE 325 Interaction of Parents and Teachers of Young Children 3 Units

Formerly: ECE 23

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course is the study of the philosophy of parental involvement and participation schools and centers for pre-school children; changing life styles of families; school as a laboratory for parents; organization of parent groups, parent education classes, the teacher's role as helper, identification of community resources.

ECE 330 Infant Development 3 Units

Formerly: ECE 7A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course is an examination of the developmental needs of infants from conception to three years of age. The course prepares parents and health, education, and social service professionals with strategies for care based on research in infant development.

ECE 331 Education and Care of Infants in Group Settings 3 Units

Formerly: ECE 7B

Prerequisite: ECE 330 or FCS 312 with a grade of "C" or better; a current Tuberculosis Test clearance is required.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course applies current research in infant development to the teaching and care of infants in group settings. Emphasis is on early childhood education principles and practices when applied to the care and education of infants from birth to three years of age. It includes strategies for designing, implementing, and evaluating group care programs for infants. The course requires participation for a designated three hours per week with infants and for toddlers under the supervision of experienced care givers in a selected infant toddler setting.

ECE 342 Constructive Math and Science in Early Childhood Education 3 Units

Formerly: ECE 20A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to the constructivist approach to teaching pre-math and science in early childhood education. The content and teaching techniques support the perspective that children construct knowledge through a dynamic, interactive process that facilitates their development of working theories relating to math and science.

ECE 343 Language and Literacy Development in Early Childhood 3 Units

Formerly: ECE 20B

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course will prepare current or future early childhood educators and caregivers to understand and enhance the emergent literacy experiences of young children. The knowledge of developmentally appropriate literacy practices will improve the early childhood educators' abilities to prepare children from birth to age 5 for reading and writing in the primary grades.

ECE 344 Principles of Pre-School Skill Building: Planning Creative Play Environments 3 Units

Formerly: ECE 20C

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
Play environments are an important component of an early childhood educational setting. This course will help students plan safe and educational environments that will enrich a child's experiences. It will also cover the importance of fostering child-child and adult-child interactions in play environments. Students will be able to analyze the use of physical space in early childhood settings and implement program philosophies and goals.

ECE 350 Introduction to Elementary Teaching with Field Experience 3 Units

Formerly: ECE 10

Prerequisite: None
Advisory: FCS 312 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is a career exploration course with an early field experience for those students considering the field of K-8 teaching. It includes a supervised field placement of three hours weekly in a local elementary school in addition to weekly class meetings on campus. It will fulfill one of the early field experiences for the CSUS blended liberal studies major. Course content includes the profession and culture of teaching, observation skills, communication skills, diversity and social issues. Students' field experiences will integrate and apply the course content. Students will also complete a service learning project at participating schools.

ECE 356 Programs for the School-Age Child 3 Units

Formerly: ECE 9

Prerequisite: None
Advisory: FCS 312 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
Students will be introduced to the challenge of planning out-of-school programs for the school-age child (K-8). Students will learn helpful hints, tips and strategies for implementing day-to-day operations and program evaluations. Students will explore developmental levels of the school-age child and participate in age-appropriate activities.

ECE 358 Activities for the Child Six to Twelve Years **3 Units**

Formerly: ECE 16

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 110 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course offers students a chance to study activities and curriculum appropriate for the school-age child (K-6th grade). Science experiments, diversity, and conflict resolution are a sampling of the topics addressed. Assignments may be incorporated to encourage our students to observe school-age care programs in our community and evaluate the activities provided. As a semester project, planning, design and implementation of activities becomes the responsibility of the students.

ECE 360 Art in Early Childhood **3 Units**

Formerly: ECE 17

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
This course is a study of the use of creative visual art in early childhood education programs. The appropriate use of art materials and activities for children at different developmental stages will be reinforced. The integration of creative art processes across the curriculum and the adaptation of these processes to support young children's development will be emphasized.

ECE 362 Music for Children **3 Units**

Formerly: ECE 18

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310.
Acceptable for credit: CSU
54 hours Lecture
Music is an essential tool for teachers of young children. This course provides the fundamentals of music designed for preschool and child development center teachers. The importance of music in early learning is discussed. Skills in performing rhythms and songs will be developed and practiced. The use of music as a part of creating a multicultural curriculum is included. Students will learn to write music lesson plans appropriate for early childhood settings.

ECE 400 Children with Exceptional Needs **3 Units**

Formerly: ECE 8

Prerequisite: FCS 312 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is an overview of the developmental issues, characteristics, and learning differences of children from birth to adolescence with exceptional needs. Current educational strategies including assessment and curriculum design will be presented. Community resources, advocacy, and challenges for children with exceptional needs and their families will be examined.

ECE 402 Infants with Atypical Developments **3 Units**

Formerly: ECE 6

Prerequisite: None
Advisory: Completion of ECE 312 and FCS 312 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to acquaint the student with the characteristics of the atypical infant assessment procedures and techniques for intervention in the development areas of sensory stimulation and integration, gross and fine motor control, cognition, language, social, and self-help skills. The course will explore community services, agencies, career and vocational opportunities in fields related to the infant with atypical development; medicine, nursing, physical therapy, special education, counseling, social work, institutional settings, and aide positions.

ECE 404 Children with Special Needs **3 Units**

Prerequisite: Completion of FCS 312 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to provide a broad overview of the characteristics, assessment techniques, methods of intervention and education, community and family resources, and current issues of young children from birth to age eight with exceptional needs and differing abilities. The focus is to increase the awareness and understanding of children's individual needs in an early childhood setting and to provide practical information to those currently involved with children with exceptional needs. Observations in public or private children's programs, schools, and agencies are required and may be completed independently by each student outside of class.

ECE 410 Health and Safety in Child Care Settings (Same as HEED 330) **1 Unit**

Formerly: ECE 13

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU
18 hours Lecture
This course will discuss health and safety issues in child care centers and family day care homes. Topics include pediatric cardiopulmonary resuscitation, pediatric first aid, and preventative health practices such as control of infectious diseases, injury prevention, nutrition, sanitation, emergency preparedness and evacuation. This course meets requirements of mandated training for child care providers.

ECE 415 Children's Health, Safety and Nutrition (Same as FCS 346) 3 Units

Formerly: ECE 14

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 310 and MATH 34.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
Students will study how to maintain optimal health, safety, and nutritional status of children from the prenatal period through school-age, at home, and in group care. Projects related to nutrition, health and safety education are included as part of the curriculum. (Students may receive credit for FCS 312 or ECE 415, but not both.)

ECE 420 Administration of Child Development Centers 3 Units

Formerly: ECE 5

Prerequisite: None
Advisory: Completion of FCS 312 and ECE 300 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This is an introductory course in the elements of program planning, budgeting, supervision, and personnel administration for schools and private centers serving children and families.

ECE 422 Advanced Coordination and Supervision of Child Development Programs 3 Units

Formerly: ECE 15

Prerequisite: ECE 320 or ECE 420 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This is an advanced course in administration and coordination of multi-faceted Child Development programs. The focus of the course will be programs funded with public money or administrated by a board of directors. Additional emphasis will be on personnel management including teacher classifications under the Child Development Permit Matrix. This course meets the requirements of the Education Code under Title 5 and the Commission for Teacher Credentialing for California for the Site Supervisor Permit.

ECE 424 Adult Supervision: Mentoring in a Collaborative Learning Setting 2 Units

Formerly: ECE 47

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This course is a study of the methods and principles of the collaborative learning approach with emphasis on supervising teachers in child care centers. Emphasis is on the role of a mentor who functions to guide the teaching team while simultaneously addressing the needs of children, parents and their staff. This course satisfies the adult supervision requirement for receiving a supervising teacher permit from the California Commission on Teacher Credentialing.

ECE 430 Culture and Diversity in Early Childhood Education 3 Units

Formerly: ECE 36

Prerequisite: None
Advisory: Eligibility for ENGRW 100 and FCS 312.
General Education: AA/AS Area F.
Acceptable for credit: CSU
54 hours Lecture
This course covers culturally responsive care and education in early childhood settings. It includes the study of childrearing and communication styles as they vary across the diverse cultures represented in the classroom and as they impact a child's development. Teaching strategies which prevent and eliminate the development of prejudice and racism in growing children will also be covered.

ECE 450 Science Curriculum for School-Age Children 3 Units

Formerly: ECE 56

Prerequisite: None
Advisory: Eligibility for ENGRW 100 and MATH 34.
Acceptable for credit: CSU
54 hours Lecture
Participation in this course will provide students with an early 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. Students will observe and implement planned activities in a school-age care program located off campus, this will be considered a required field trip for the class. Students' experiences and reflections will be documented in a learning portfolio format. Science Curriculum for School-Age Children is one component of the Science Specialization for Master Teacher Career Certificate.

ECE 498 Work Experience in Early Childhood Education 1-4 Units

Formerly: ECE 48

Prerequisite: Employment in a position related to Early Childhood Education and enrollment in a minimum of 7 units including Work Experience.
Advisory: Completion of ENGWR 100 or ENGRD 110 with a grade of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in infant, preschool, and school-age child care centers. Students may be placed in infant centers, public or private child development centers/preschools, and in before or after-school programs for school-age children. Enrollment is dependent on job placement and registration for the course will be processed at the time of employment. Job placement is not guaranteed but assistance is provided by the coordinator. The student is required to fulfill 18 lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be repeated when there is new or expanded learning on the job up to four times, for a maximum of eight(8) units.

Economics ECON

Division of Business

Shirley Short, Dean

Business Building 213

916-558-2581

ECON 100 Introduction to Economics 3 Units

Formerly: ECON 55

Prerequisite: None
General Education: AA/AS Area B2.
54 hours Lecture
This course introduces the purpose, terminology, and basic concepts of economic theory; examines the fundamental economic problem of scarcity and describes how our society is organized to deal with scarcity. It considers some of the problems (unemployment, inflation, poverty) that economic theory may help solve.

ECON 302 Principles of Macroeconomics 3 Units

Formerly: ECON 1A

Prerequisite: None
Advisory: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC (ECON 302 or 480, maximum one course)/CSU
54 hours Lecture
This course describes the interaction among households, business, government, and the foreign sectors of the economy. It relates the link between money, interest rates, government expenditure and taxation, in determining the levels of output, employment, prices, income, national debt, and balance of trade.

ECON 304 Principles of Microeconomics 3 Units

Formerly: ECON 1B

Prerequisite: None
Advisory: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
The pricing and allocation of resources under varying market competitive conditions are the focus of this course. Consideration of the effect government action may have on the efficiency, effectiveness, and equity of market behavior, and an investigation of factor markets, including labor markets and also market failure are included. Other topics may be covered as time permits.

ECON 310 Economic Statistics 3 Units

Formerly: ECON 2

Prerequisite: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area D2.
Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU
54 hours Lecture
This course covers the collection, presentation, analysis, and interpretation of numerical data; statistical analysis including central tendency, variation, probability, sampling, inference, index numbers, linear regression, and correlation.

ECON 330 Fundamentals of Investment Management and Financial Markets 3 Units

Formerly: ECON 15

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Fundamentals of Investment Management and Financial Markets will provide important information that individuals should know before investing their funds or managing Investments. The course will be equally valuable to those who have little or no knowledge of investing and financial markets as well as those who are already investors and want to sharpen their skills. The course will provide a blend of the traditional and modern approaches to investment decision making (and financial markets). The traditional approach is largely descriptive, while the modern approach emphasizes quantitative techniques. The emphasis will be on understanding the underlying concepts rather than on the mathematics.

ECON 480 Principles of Macroeconomics -Honors 3 Units

Formerly: ECON 1AH

Prerequisite: None
Advisory: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC (ECON 302 or 480, maximum one course)/CSU
54 hours Lecture
This course uses statistical, historical, and comparative data to develop an understanding of economic theory, problems, policies, and issues. It includes the foundations of economics: the nature of markets; problems and issues of the role of government; development of theory and its application in public policy; issues relating to expenditure, money, taxation, and international trade in determining the levels of employment, the price level, national income, budget and trade balances. This honors section uses an intensive instructional methodology designed to challenge and motivate students and to heighten understanding of economic dynamics.

ECON 482 Economic Statistics - Honors 3 Units

Formerly: ECON 2H

Prerequisite: High school Algebra II or MATH 120 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU
54 hours Lecture
This course covers the collection, presentation, analysis, and interpretation of numerical data: statistical analysis including central tendency, variation, probability, sampling, inference, index numbers, linear regression, and correlation. This honors section uses an intensive instructional methodology designed to challenge motivated students.

Electronics Technology E T

Associate in Science Degree

Career Certificate

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Automated Systems Technician, Degree and Career Certificate

Electronics Facilities Maintenance Technician, Degree and Career Certificate

Microcomputer Technician, Degree and Career Certificate

Telecommunications Technician, Degree and Career Certificate

Electronics Mechanic, Career Certificate

Career Opportunities

The Electronics Technology Program consists of five major career preparation options: (l) Telecommunications Technician: Designed to prepare students for employment in the calibrating, testing, repair and maintenance of electronic communications equipment. (2) Automated Systems Technician: Designed to prepare students for employment in the programming, testing, repair and maintenance of digital and analog computer controlled systems. (3) Electronics Facilities Maintenance Technician: Designed to prepare students for employment in Federal Aviation Administration facilities or any facilities with advanced computer and communications electronics; (4) Microcomputer Technician: Designed for Electronics Technology or Computer Information Science students pursuing employment in the area of programming and maintaining microcomputer systems, (5) Electronics Mechanic: Designed to prepare students for employment in the assembly and testing of electronic circuit devices.

Recommended High School Preparation

Courses in electricity, electronics, English, algebra, physics, chemistry and computers.

Program Costs

In addition to the normal student expenses (for textbooks, personal equipment and supplies), laboratory materials fees may be required. Students will be responsible for providing some of their own parts and a basic Electronics tool kit. These will be available as ready-made sets in the College Store. For specific class required materials and texts, check with the Electronics faculty or the College Store. These fees may vary each semester. If these fees create a financial burden, students should consult the Financial Aid Office for possible assistance.

Admission to Program (All Options)

(a) See each course listing for course prerequisites. (b) Orientation interview with a member of the Electronics Technology department is recommended. For information, please call (916) 558-2263 or 558-2491.

Electronics Core	**Units**
ET 300, DC Theory and Circuit Fundamentals, Part I	2.5
ET 301, AC Theory and Circuit Fundamentals, Part II	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
Total Units Required	**18**

Automated Systems Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for students pursuing employment in the programming, testing, repair and maintenance of digital and analog computer controlled systems.

Required Program	Units
Electronics Core	18
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 Communication Techniques	4
CISC 310, Introduction to Computer Information Science	3
ET 490, Advanced Student Projects Laboratory	2, 2
Total Units Required	**46**

Suggested Electives

EDT 310, 352; MIT 322, 330; TECH 100, 103, 300, 310, 315.

Associate in Science Degree (A.S.)

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

Career Certificate

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

Electronics Facilities Maintenance Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for students pursuing internships and employment in the Federal Aviation Administration and other related industries in the areas of computer systems, environmental systems, communication equipment, and navigation equipment maintenance and repair.

Required Program	Units
Electronics Core	18
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 Communication Techniques	4
ET 410, Transmitter Fundamentals	5
MATH 334, Trigonometry	4
Total Units Required	**49**

Suggested Electives
CISC 310; ET 490, EDT 310, 352; MIT 322, 330; TECH 100, 103, 300, 310, 315.

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

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

Microcomputer Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for Electronics Technology and Computer Information Science students pursuing employment in the area of programming and maintaining microcomputer systems.

Required Program	Units
CISC 310, Introduction to Computer Information Science	3
CISP 301, Algorithm Design and Implementation	4
CISA 305, Beginning Word Processing	2
CISA 310, Introduction to Electronic Spreadsheets	1
CISA 311, Intermediate Electronic Spreadsheets	1
CISA 320, Introduction to Database Management	1
CISC 320, Operating Systems (Windows or UNIX/LINUX)	1
CISC 355, Introduction to Data Communications	1.5
CISP 360, Introduction to Structured Programming (C - UNIX/LINUX), OR CISP 400, Object Oriented Program in "C++", OR CISP 401, Object Oriented Programming with JAVA	4
ET 340, Basic Microprocessors	5
ET 390, Microprocessor Systems - Troubleshooting	3
ET 490, Advanced Student Projects Laboratory	2, 2
Electives	6
Total Units Required	**36.5**

Select electives totaling six (6) units:
CISC 310, CISC 360; ET 300/301, 305, 310/311, 320; EDT 310, 352; TECH 100, 103, 300, 310, 315.

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

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

Telecommunications Technician

Associate in Science Degree
Career Certificate

Career Opportunities: This program is designed for students pursuing employment in the calibration, testing, repair and maintenance of electronic communications equipment.

Required Program	Units
Electronics Core	18
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, or ET 390, Microprocessor Systems, Troubleshooting	3
ET 400, Microwave Communication Techniques	4
ET 410, Transmitter Fundamentals	5
Total Units Required	**45**

Suggested Electives
CISC 310; ET 490; EDT 310, 352; MIT 322, 330; TECH 100, 300, 310, 315.

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

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

Electronics Mechanic

Career Certificate

Career Opportunities: This program is designed for students pursuing employment in the assembly and testing of electronic circuit devices.

Required Program	Units
Electronics Core	18
Electives	13
Total Units Required	**31**

Select from the following courses:
CISC 310; MET 351, 352; MIT 322; TECH 103, 310, 315.

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

Electronics Technology (ET)

ET 15 Beginning Mathematics for Electronics 3 Units

Formerly: ET 201

Prerequisite: None
54 hours Lecture
This is a course for those interested in electronics who do not meet the requirements for Electronics Technology 300/301. Includes DC and AC circuit mathematics, scientific calculators, powers of ten, and introduction to algebraic concepts as related to electronics.

ET 145 Basic Computer System Repair I 1 Unit

Formerly: ET 171

Prerequisite: None
12 hours Lecture; 18 hours Laboratory
This is a course to introduce the student to personal computer repair. The course will begin with an overview of the history of computer repair and then discuss common computer repair nomenclature, how diagnostic software is used, and the theory of computer operations. The course will also introduce the student to the use of the Internet for technical repair documentation.

ET 146 Basic Computer System Repair II 3 Units

Formerly: ET 172

Prerequisite: ET 145 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is the second of three courses in computer repair. Familiarization with computer hardware and software will give students an overview of repair procedures of a computer system. The scope of the course will include personal computer fabrication and common problem solutions. Troubleshooting philosophies and techniques are emphasized.

ET 147 Basic Computer System Repair III 3 Units

Formerly: ET 173

Prerequisite: ET 146 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is the third of three courses in computer system repair. This course will familiarize the student with computer hardware and software specific to desktop and network computer repair. The scope of the course will include PC board and component level repair of a typical desktop computer system. Troubleshooting philosophies and techniques are emphasized.

ET 210 Applied Mathematics for Electronics 3 Units

Formerly: ET 121

Prerequisite: None
54 hours Lecture
This is a basic course for those interested in electronics who do not meet the requirements for ET 300. Units of instruction include DC and AC circuit application mathematics, scientific calculators, powers of ten and introduction to algebraic concepts as related to electronics.

ET 220 A Survey of AC and DC Circuit Fundamentals 5 Units

Formerly: ET 130

Prerequisite: ET 210 and 230 with grades of "C" or better or equivalent.
54 hours Lecture; 108 hours Laboratory
This course is designed to provide instruction in the basic concepts of AC and DC theory including a study of resistors, capacitors and inductors in series and parallel circuits. Laboratory use of meters, oscilloscopes, signal generators and power supplies will be stressed.

ET 230 Laboratory Practices and Techniques 1 Unit

Formerly: ET 150

Prerequisite: None
Advisory: Concurrent enrollment in ET 210.
54 hours Laboratory
This course provides instruction in the language of electronics, safe and efficient use of tools, equipment, and chemical processes used in the laboratory including: high voltage precautions, printed circuit fabrication, equipment panel fabrication silkscreen, and state-of-the-art soldering techniques.

ET 240 A Survey of Semiconductor Theory 5 Units

Formerly: ET 161

Prerequisite: ET 220 with a grade of "C" or better or equivalent.
54 hours Lecture; 108 hours Laboratory
This course provides a survey of diodes, transistors, FET's, linear and digital IC's and how they are installed and used in modern electronic equipment. Laboratory will stress the hands-on manufacturing and troubleshooting of modern electronic equipment.

ET 300 DC Theory and Circuit Fundamentals 2.5 Units

Formerly: ET 30A

Prerequisite: One year of high school algebra or ET 15 with a grade of "C" or better or equivalent prerequisite.
Advisory: Concurrent enrollment in ET 305 and 310.
Acceptable for credit: CSU
27 hours Lecture; 54 hours Laboratory
This course is designed to provide instruction in the basic concepts of DC theory including a study of the composition of matter, circuit fundamentals, voltage, current and resistance in series, parallel and combination circuit configurations. Laboratory activities provide hands-on projects that include operation and use of electronic equipment required by industry.

ET 301 AC Theory and Circuit Fundamentals 2.5 Units

Formerly: ET 30B

Prerequisite: Successful completion of ET 300 with a grade of "C" or better or equivalent prerequisite.
Advisory: Concurrent enrollment in ET 305 and 311.
Acceptable for credit: CSU
27 hours Lecture; 54 hours Laboratory
This course is designed to provide instruction in the basic concepts of AC theory including a study of circuit fundamentals, voltage, current, resistance and RLC impedances in series, and parallel and combination circuit configurations. Laboratory activities provide hands-on projects that include operation and use of electronic equipment required by industry.

ET 306 Electronics Fabrication and Soldering Techniques 2 Units

Formerly: ET 50

Prerequisite: None
Advisory: Successful completion of or concurrent enrollment in ET 300 and 301.
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course covers the skills needed for identification and the safe and efficient use of hand tools and soldering equipment used in basic electronics repair. Familiarization with fabrication, soldering/de-soldering techniques, electrostatic discharge (ESD), assembly and safety practices are covered.

ET 310 Mathematics for DC Circuit Fundamentals, Part I 1.5 Units

Formerly: ET 51A

Prerequisite: One year of high school algebra or ET 15 with a grade of "C" or better, or qualifying mathematics assessment test scores or equivalent.
Advisory: Concurrent enrollment in ET 300.
General Education: AA/AS Area D2 (ET 310 and 311).
Acceptable for credit: CSU
27 hours Lecture
This course focuses on the application of the basic concepts of algebra to solve electronic problems in DC resistive series parallel circuits. It will also instruct in the use of powers of ten, algebra and other mathematical concepts necessary for calculation of resistance, DC voltage and current distribution in series, and parallel and combination circuits.

ET 311 Mathematics for AC Circuit Fundamentals, Part II 1.5 Units

Formerly: ET 51B

Prerequisite: Successful completion of ET 310 with a grade of "C" or better or equivalent prerequisite.
Advisory: Concurrent enrollment in ET 301.
General Education: AA/AS Area D2 (ET 310 and 311) and Math Competency.
Acceptable for credit: CSU
27 hours Lecture
This course focuses on the application of the basic concepts of algebra and trigonometry to solve electronic problems in AC-RLC series/parallel circuits. It will also instruct in the use of powers of ten, logarithms, algebra, and other mathematical concepts necessary for calculation of resistances, reactances, AC voltage and current distribution in series, parallel and combination circuits.

ET 315 Mathematics for Semiconductor Theory 3 Units

Formerly: ET 60

Prerequisite: ET 300, 301, 310, and 311 with a grades of "C" or better or equivalent.
Advisory: Concurrent enrollment in ET 320 and 330.
AA/AS: Math Competency
Acceptable for credit: CSU
54 hours Lecture
This course provides a detailed study of the mathematics required to solve problems in semiconductor circuit theory including: 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, use of network theorems to simplify complex biasing networks.

ET 320 Semiconductor Theory 5 Units

Formerly: ET 61

Prerequisite: ET 300, 301, 310, and 311 with a grades of "C" or better or equivalent.
Advisory: Concurrent enrollment in ET 315.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course provides a detailed study of diodes, transistors, FET's, linear IC's and their use in power supplies, AC and DC small signal and large signal amplifiers. Laboratory will stress the troubleshooting and repair of each type of power supply and amplifier circuit.

ET 330 Analog and Digital Integrated Circuit Applications 5 Units

Formerly: ET 71

Prerequisite: ET 300, 301, 310, and 311 with a grades of "C" or better or equivalent.
Advisory: Concurrent enrollment with ET 315 and 320.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course focuses on log gates, and truth tables for TTL and CMOS circuits. Theory and practical applications of decoders, flip-flops, latches and counters will be covered. Theory and practical applications for operational amplifiers and comparators will be covered. Theory and applications of timers, phase-locked loops, op-amp integrators and active filters.

ET 340 Basic Microprocessors 5 Units

Formerly: ET 72

Prerequisite: None
Advisory: Concurrent enrollment in ET 490.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This beginning course dealing with the circuitry and use of the microprocessor. Peripheral hardware is also considered so that the student may gain an overview of a complete computer system. The scope of the course includes machine language programming in order to provide a base for understanding the dynamic operation of the entire system. Troubleshooting philosophy is stressed.

ET 350 Receiver Circuits 5 Units

Formerly: ET 73

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course focuses on the principles of radio receivers using AM, FM and single sideband modulation systems. The course will also present associated control circuits and power supply circuitry for receivers.

ET 360 Electronic Servicing and Calibration Techniques 3 Units

Formerly: ET 74

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course focuses on developing familiarization with laboratory and test instruments and techniques of calibration and repair. It is a practical step-by-step approach for the beginning technician to the art of troubleshooting techniques on all the electronic equipment available in the electronics laboratory.

ET 390 Microprocessor Systems - Troubleshooting 3 Units

Formerly: ET 80

Prerequisite: ET 340 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
18 hours Lecture; 108 hours Laboratory
This course will focus on the principles of microprocessor system control and troubleshooting. Study will include measurement transducers, analog-to-digital converters, power supplies and power users. All concepts processes will be coordinated by a microprocessor to perform a desired function.

ET 400 Microwave Communications Techniques 4 Units

Formerly: ET 82

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course is a study of electromagnetic waves and antennas. The course will present types of microwave generators, microwave communications systems, antenna guidance systems. The use of lasers and fiber optics in communications systems and as a source of high tech energy control will also be presented.

ET 410 Transmitter Fundamentals 5 Units

Formerly: ET 84

Prerequisite: ET 315, 320, and 330 with grades of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This is a fundamental course in AM/FM and single side-band transmitters. The course will present students with preparation for employment in the communications industry. It will include instruction in adjustment and tuning of transmitters. Students will be presented with symptoms of malfunctions and remedies in troubleshooting transmitters.

ET 490 Advanced Student Projects Laboratory 2 Units

Formerly: ET 83

Prerequisite: None
Advisory: Completion of ET 300 and 301; Concurrent enrollment in ET 340.
Acceptable for credit: CSU
108 hours Laboratory
This course provides an opportunity for students to pursue advanced projects selected by the Electronics Technology Department staff. This course may be taken twice for credit.

ET 494 Topics in Electronics Technology .5-5 Units

Formerly: ET 93

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This is a specialized course developed in cooperation with industry to address emerging training needs. This course may be repeated for credit provided there is no duplication of topics. Units are awarded on the basis on .5 unit for each 9 hours of lecture or 27 hours of lab.

ET 498 Work Experience in Electronics Technology 1-4 Units

Formerly: ET 98

Prerequisite: None
72 hours Lecture
See Work Experience.

Engineering ENGR

Division of Mathematics/Statistics & Engineering

Ron Hatton, Interim Dean

South Gym 220

916-558-2202

Career Opportunities:

This program gives students the opportunity to complete the lower-division coursework in preparation for transfer to a four-year program in engineering. Engineering careers include aerospace, architectural, chemical, civil, computer, electrical and mechanical engineering.

The lower-division Engineering requirements vary between universities and within majors for each university. With careful planning, students can complete the requirements for transfer in two years if starting at the first calculus course level. Students should have college algebra, geometry, trigonometry, and pre-calculus to be eligible for calculus, Mathematics 400.

Major Courses:

MATH 400, 401, 402, 420, 410*;
PHYS 410, 420, 430*;
CHEM 400, 401*;
ENGR 400, 310*, 312*, 405*, 412*

*Not required by all majors. Students should verify their planned transfer program at their chosen four-year institution or meet with an Engineering faculty member or an SCC Transfer Center representative.

Engineering

The courses listed are those required to qualify for junior standing in engineering at four-year institutions offering baccalaureate degrees. Because the entry requirements among institutions vary, students intending to transfer to those institutions offering four-year engineering programs should carefully plan their programs with the advice of counselors and Engineering Department faculty. Students should complete the prerequisites shown before taking the specified course. However, in some cases, with the approval of the instructor, they may be concurrently enrolled in a course that is listed as a prerequisite.

Engineering (ENGR)

ENGR 300 Introduction to Engineering 1 Unit

Formerly: ENGR 2

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture
This course provides an introduction to the different engineering disciplines and careers, the role of the engineer in society, the engineering approach to problem solving, the design process, and engineering ethics. The development of effective communication and study skills is emphasized. This course is required of most engineering majors.

ENGR 306 Basic Technical Drafting (same as EDT 300) 3 Units

Formerly: ENGR 51

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the first course in drafting for drafting students. Studies include topographics, orthographics, pictorial drawings, sections, conventions, lettering, dimensioning, working drawing development, instrument care and use, and sketching.

ENGR 308 Introduction to Robotic Systems Applications (Same as TECH 300) 3 Units

Formerly: ENGR 53

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to provide introductory level instruction in the concepts, operations, maintenance and practical application of robotic systems. Instructional components include: Basic robotic concepts, mechanical, electronic, hydraulic, and pneumatic components; light and other sensor controls in addition to related programming and safety procedures. (Credit for TECH 300 or ENGR 308, but not for both.)

ENGR 310 Engineering Survey Measurements 4 Units

Formerly: ENGR 10

Prerequisite: MATH 334 with a grade of "C" or better.
Advisory: Completion of or concurrent enrollment in a basic drafting course.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course covers the basic fundamentals of surveying for engineers. This includes the theory and practice of measurements for distance, elevations and angles, analysis and adjustment of errors (systematic and random), and traverse calculation and adjustments. Additional topics include discussions on profiles and cross-sections, horizontal curves and vertical curves. This course has an inside lecture component as well as a required outside field component. This course is designed for engineering students and is usually required for civil engineering majors depending on the transfer institution.

ENGR 312 Engineering Graphics 3 Units

Formerly: ENGR 27

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 72 hours Laboratory
Topics covered are elements of drafting, multiview drawing, computer graphics, elements of descriptive geometry, vectors, and graphical solutions of engineering problems.

ENGR 400 Introduction to Electrical Circuits and Devices 3 Units

Formerly: ENGR 17

Prerequisite: Concurrent enrollment in or completion of MATH 402 and PHYS 420 with grades of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture
This is the first course in electrical engineering analysis. Topics in this course include developing mesh and node equations with ideal and dependent sources using Kirchoff's laws, equivalent sources, transient circuit response, AC power and circuit analysis using phasor techniques, and operational amplifiers. This course is required for all engineering disciplines.

ENGR 405 Engineering Problem Solving 3 Units

Formerly: ENGR 5

Prerequisite: Completion MATH 401 with a grade of "C" or better or concurrent enrollment in MATH 401.
Advisory: Knowledgeable in the use of a personal computer.
Acceptable for credit: UC (CISP 342 or ENGR 405, maximum one course)/CSU
36 hours Lecture; 54 hours Laboratory
This course provides an introduction to the use of computers in solving engineering problems using MATLAB. The student will learn to use basic programming techniques including program control, relational/logical operators, selection scripting and file management as they implement computational solutions.

ENGR 410 Mechanics of Materials 3 Units

Formerly: ENGR 40

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Determination of stresses, strains, and deformations of axial flexure and torsionally loaded structural elements. Evaluation of the principal stresses of structural elements subjected to combined loads. Instability analysis of column elements. Membrane stresses of pressurized plates, shells and spherical elements. Design and composite structures.

ENGR 412 Properties of Materials 3 Units

Formerly: ENGR 45

Prerequisite: CHEM 400 and PHYS 410 with grades of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course covers atomic and crystal structures, mechanical, electrical and magnetic properties of engineering materials. Also covered are the steady and non-steady state diffusion, phase diagram analysis, heat treatment of metals, and corrosion. Laboratory exercises cover both destructive and non-destructive testing of materials.

ENGR 422 Engineering Mechanics, Statics 3 Units

Formerly: ENGR 35

Prerequisite: PHYS 410 and MATH 401 with grades of "C" or better.
Acceptable for credit: UC/CSU
54 hours Lecture
This is the first course in engineering mechanics. Topics in this course include two and three dimensional force system analysis using vector techniques, moments and couples in two and three dimensions, centroids and moment of inertia, friction, forces in beams, and truss analysis. This course is required for Mechanical, Civil, Aeronautical engineering transfer students and by most electrical engineering programs.

ENGR 494 Topics in Engineering .5-4 Units

Formerly: ENGR 22

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in engineering. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit providing there is no duplication of topics.

ENGR 498 Work Experience in Engineering 1-4 Units

Formerly: ENGR 48

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
See Work Experience.

Engineering Design Technology

Associate in Science Degree

Career Certificate

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Architectural/Structural Drafting, Degree and Career Certificate

Electric (Power/Lighting Systems), Degree and Career Certificate

Mechanical (HVAC/Plumbing Systems), Degree and Career Certificate

HVAC Systems Design, Degree and Career Certificate

Surveying (Geomatics), Career Certificate

Career Opportunities

This program is designed for students pursuing entry level employment in architectural, electrical and mechanical engineering, and commercial construction drafting fields. Depending on their technical field of interest and capabilities, students who complete the program may find employment in any of the following types of jobs: Engineering Aide I, Engineering Aide II, Drafting Aide I, Drafting Aide II, Junior Drafter, Architectural Drafter, Mechanical Drafter/Designer Trainee, Electrical Drafter/Designer Trainee, Structural Drafter/Designer Trainer, Topographical Drafter/Designer Trainee, General Construction Drafter/Designer Trainee, General Construction Estimator Trainee, Computer Aided Drafter or Technical Sales representatives.

Recommended High School Preparation

Completion of English and general mathematics. It is desirable, but not required, that a student complete courses in drafting, industrial arts shop courses, one year of algebra, plane geometry, general science and introduction to computers.

Program Information

Engineering Design Technology is studied in lecture and drafting practice classes. Mathematics, science, and engineering fundamentals, which are all related to the content of this program, are studied in the Engineering Design Technology program or through recommended elective courses. General Education courses complete the recommended classes for the Engineering Design Technology curriculum.

Program Costs

Normal student expenses for textbooks, personal equipment and supplies may be required. These expenses may vary each semester. If these expenses create a financial burden, students should consult the Financial Aid Office for possible assistance.

Admission to Program

Orientation interview with a member of the Engineering Design Technology staff is recommended. For information call (916)558-2232 or 558-2491.

Required Program

Course	Units
EDT 300, Basic Technical Drafting	3
EDT 310, Computer Aided Drafting	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 350, Electrical and Electronics Drafting Design Problems	3
EDT 352, Electrical and Electronics Drafting	4
Electives	7
Total Units Required	**30**

Select seven (7) units from the following:

EDT 302, 312, 314, 336, 340, 342, 356; MET 220; SURVY (Geomatics) 300, 310.

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

Transfer Students
Students who, after completing this program, are planning to continue specialization in this field by transferring to a four-year college, should consult the Requirements of Transfer Institutions section in this catalog and the engineering or related major sections of the specific catalog for the institution to which they wish to transfer. Consultation with an SCC counselor is advised.

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

Architectural/Structural Drafting

Associate in Science Degree
Career Certificate

This degree and career certificate option is designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Required Program	**Units**
EDT 300, Basic Technical Drafting	3
EDT 310, Computer Aided Drafting	2
EDT 312, Intermediate Computer Aided Drafting	3
EDT 320, Architectural and Structural Drafting	4
EDT 314, Advanced Computer Assisted Drafting and Design	2
Electives	6
Total Units Required	**20**

Select six (6) units from the following:
EDT 302, 352 and 332, 340, 342, 350, 356 and 330, 336, 498; MET 220; MATH 334; SURVY (Geomatics) 300, 310.

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

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent as determined by the Engineering Design Technology Department.

Electric (Power-Lighting Systems)

Associate in Science Degree
Career Certificate

Designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Required Program

Course	Units
EDT 300, Basic Technical Drafting	3
EDT 352, Electrical and Electronics Drafting	4
EDT 350, Electrical and Electronics Drafting Design Problems	3
EDT 310, Computer Aided Drafting	2
EDT 312, Intermediate Computer Aided Drafting	3
EDT 314, Advanced Computer Assisted Drafting and Design	2
Electives	7
Total Units Required	**24**

Select seven (7) units from the following:
EDT 302, 356, 340, 342, 332 and 320, 330, 336, 498; MET 220; MATH 334; SURVY (Geomatics) 300, 310.

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

Career Certificate
The Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent as determined by the Engineering Design Technology Department.

HVAC Systems Design

Associate in Science Degree
Career Certificate
CADD (Heating, Ventilating, Air Conditioning)

This program is designed for students pursuing employment or upgrade in training in computer applications of heating, ventilation, and air conditioning (HVAC) systems design.

Required Program	Units
EDT 300, Basic Technical Drafting	3
EDT 310, Computer Aided Drafting	2
EDT 312, Intermediate Computer Aided Drafting	3
EDT 336, Air Conditioning System Design	3
Electives	10
	21

Select 10 units from the following:
EDT 302, 314, 330, 332, 498; MET 220; MIT 322, 330, 340; TECH 100, 300.

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

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

Mechanical (HVAC/Plumbing Systems)

Associate in Science Degree
Career Certificate

Designed for students pursuing employment or upgrade in employment in Manual and CAD drafting applications in Architectural or Structural Engineering related offices.

Required Program	Units
EDT 300, Basic Technical Drafting	3
EDT 310, Computer Aided Drafting	2
EDT 312, Intermediate Computer Aided Drafting	3
EDT 332, Air Conditioning, Plumbing and Piping Design Documents	4
EDT 330, Air Conditioning, Plumbing and Piping Design	3
EDT 314, Advanced Computer Assisted Drafting and Design	2
Electives	3
Total Units Required	**20**

Select three (3) units from the following:
EDT 302, 340, 342, 350, 352 and 320, 336, 498; MET 220; MATH 15; SURVY (Geomatics) 300, 310.

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

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

Surveying (Geomatics) SURVY

Career Certificate

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.

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.

Material is sufficient, when coupled with the legally required experience, to prepare the student for the State licensing examinations conducted by The Board of Registration for Professional Engineers.

There are numerous specialties in survey employment and early counseling is suggested to help select the proper optional classes.

Required Program	**Units**
SURVY 300, Elementary Surveying	4
SURVY 320, Advanced Survey	4
SURVY 330, Special Surveying Projects	4
SURVY 340, Photogrammetry	4
SURVY 350, Boundary Control and Legal Principles	4
SURVY 352, Evidence and Procedures for Boundary Location	4
Total Units Required	**24**

Suggested Electives
SURVY 310, 360; CISC 310; GEOG 300; GEOL 345; PHYS 310; TECH 11, 103, 310, 315.

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

Transfer Students
The required courses are consistent with that four-year institutions offering surveying. Students desiring four years to further their survey education are cautioned to complete the mathematics and science requirements of the four-year college. Consultation with an SCC counselor is advised.

Engineering Design Technology (EDT)

EDT 300 Basic Technical Drafting (Same as ENGR 306) 3 Units

Formerly: EDT 51

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the first course in drafting for drafting students. Studies include topographics, pictorial drawings, orthographics, sections, conventions, lettering, dimensioning, working drawing development, instrument care and use, sketching.

EDT 302 Building Trades Blueprint Reading 2 Units

Formerly: EDT 60

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
This is a course in blueprint reading and sketching related to building trades. Architectural, structural, electrical and mechanical drawings, details, and specification requirements will be examined in detail for residential, commercial and industrial construction.

EDT 310 Computer Aided Drafting 2 Units

Formerly: EDT 66

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This is a lecture/lab type course geared to acquaint the drafting student with terms, materials, equipment, problems and practices which are unique to the CAD field. Field trips to local CAD facilities.

EDT 312 Intermediate Computer Aided Drafting 3 Units

Formerly: EDT 67

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a second course in Computer Aided Drafting which introduces and helps develop job-applicable speed and competence on AutoCAD software and hard disk driven equipment. Offers in-service training and upward mobility training to the professional drafter. Emphasis is on in-office related production skills and program customization.

EDT 314 Advanced Computer Assisted Drafting and Design 2 Units
Formerly: EDT 91

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course covers advanced study in computer aided design and drafting with emphasis on construction related topics. The general concepts will also relate to other computer drafting applications. Course subject areas will include basic three-dimensional studies, customizing, and applications to drawing development.

EDT 320 Architectural/Structural Drafting 4 Units
Formerly: EDT 81

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides instruction in drafting practices involving building construction drawings and specifications and surveying practices related to construction work.

EDT 330 Air Conditioning, Plumbing and Piping Design 3 Units
Formerly: EDT 72

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in the design of air conditioning, plumbing and piping systems. Topics include cooling and heating load calculations, zoning, system and equipment selection, ductwork systems and controls for HVAC systems; and plumbing, fire protection and industrial piping systems.

EDT 332 Air Conditioning, Plumbing and Piping Design Documents 4 Units
Formerly: EDT 71

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides instruction in the preparation of construction drawings and specifications for air conditioning, plumbing, and piping systems. The emphasis is on preparing drawings and related documentation that are of a standard of clarity and completeness that will meet building department and construction industry standards, using both manual and computer aided drafting applications.

EDT 336 Air Conditioning System Design 3 Units
Formerly: EDT 78

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will focus on the calculations of heat gain and heat loss, types of HVAC systems, equipment selection, ductwork design, environmental comfort considerations, psychrometrics, and temperature control systems.

EDT 340 Plumbing and Piping Systems Design I 2 Units
Formerly: EDT 70A

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
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.

EDT 342 Plumbing and Piping Systems Design II 2 Units
Formerly: EDT 70B

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
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.

EDT 350 Electrical and Electronics Drafting/Design Problem Solving 3 Units
Formerly: EDT 62

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
Problem solving related to electrical and electronics drafting, formula solutions, application of Ohms Law, series-parallel circuitry, basic electrical power and sizing formula, general lighting calculations.

EDT 352 Electrical and Electronics Drafting Design 4 Units
Formerly: EDT 61

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides instruction in basic electron theory, electrical/electronic circuitry, drafting practices involving residential, commercial, industrial electrical drawings, material specifications and an introduction to printed circuit board layout. Three field trips to local construction projects, existing installation and manufacturing facilities are required. Work in this course will involve applying calculations from EDT 350 to design basic electrical power wiring, lighting and control signal systems.

EDT 356 Electrical Systems Design 2 Units
Formerly: EDT 69

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
This is a basic course of electrical systems for residential and commercial buildings with emphasis on practical industry, materials, methods, and codes.

EDT 494 Topics in Engineering Design Technology .5-4 Units

Formerly: EDT 92

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This specialized course has been developed in cooperation with industry to address emerging training needs. This course may be repeated no more than three times for credit, provided there is not duplication of topics.

Surveying (Geomatics) (SURVY)

SURVY 300 Elementary Surveying 4 Units

Formerly: SURVY 11

Prerequisite: None
General Education: AA/AS Area D2
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides an introduction to the instrumentation and methods of measuring distances, angles, and differences in elevations. Fundamental surveying methods, traverse measurements, area computations, use and care of electronic survey equipment will be stressed.

SURVY 310 Survey Map Production 4 Units

Formerly: SURVY 15

Prerequisite: None
Advisory: SURVY 300.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course provides an exposure to the special procedures and requirements unique to survey mapping. Fundamental survey drafting methods and types of maps will be stressed. Students will produce a variety of survey maps, both manually and by CAD system.

SURVY 320 Advanced Survey 4 Units

Formerly: SURVY 21

Prerequisite: Completion of SURVY 300 or equivalent.
Advisory: Completion of or concurrent enrollment in MATH 334 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course focuses on real world surveying applications, construction control, layout and staking, horizontal and vertical curves, above and underground structural staking, subdivision lotting and street improvement construction. Introduction to boundary surveying and photogrammetric surveys; theory of geodetic and control surveys. GPS, GIS, and electronic surveys and mapping are also covered.

SURVY 330 Special Surveying Projects 4 Units

Formerly: SURVY 22

Prerequisite: Completion of SURVY 320 or equivalent; (Equivalency based on work experience or applicable education.)
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course focuses on real world surveying applications, construction control, layout and staking, horizontal and vertical curves, above and underground structural staking, subdivision lotting and street improvement construction. Introduction to boundary surveying and photogrammetric surveys, theory of geodetic and control surveys. Global Positioning Systems, Geographic Information System and electronic surveys and mapping are also included.

SURVY 340 Photogrammetry 4 Units

Formerly: SURVY 23

Prerequisite: Completion of SURVY 320 or equivalent; (Equivalency based on work experience or applicable education.)
Acceptable for credit: CSU
36 hours Lecture; 108 hours Laboratory
This course focuses on the fundamentals of photogrammetry with emphasis on survey requirements, including introduction to stereoscopic instruments, photogrammetric consideration for flight and control planning, control identification techniques, advanced field completion surveys and property line investigations.

SURVY 350 Boundary Control and Legal Principles 4 Units

Formerly: SURVY 31

Prerequisite: None
Advisory: Completion of SURVY 320 or equivalent; (Equivalency based on work experience or applicable education.)
Acceptable for credit: CSU
72 hours Lecture
This course is an introduction to the legal principles, surveying, and mapping procedures used in locating boundaries and land ownership lines.

SURVY 352 Evidence and Procedures for Boundary Location 4 Units

Formerly: SURVY 32

Prerequisite: Completion of SURVY 350 or equivalent; (Equivalency based on work experience or applicable education.)
Acceptable for credit: CSU
72 hours Lecture
This is a continuation of boundary location with emphasis on procedures rather than principles. Techniques of gathering and evaluating evidence used in boundary locations and methods of presenting that evidence in the form of maps and descriptions are emphasized.

SURVY 360 Survey Business Practices 3 Units

Formerly: SURVY 82

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on surveying economics; contracts and specifications; organizing, staffing, hiring and supervision of technical personnel, surveyor-client relationships and ethics of practice.

English ENGL

Associate in Arts

Division of Language and Literature

Julia Jolly, Dean

Rodda South 226

916-558-2325

A Major in English offers students an opportunity to take courses in literature, composition, and creative writing. It prepares students for university-level studies in English or other disciplines and also readies students for the workforce by emphasizing reading, writing, and critical thinking skills.

Required Program	**Units**
ENGWR 300, College Composition, or ENGWR 480, Honors College Composition	3
ENGWR 301, College Composition, and Literature	3
ENGLT 320, American Literature	3
ENGLT 321, American Literature	3
ENGLT 310, English Literature	3
ENGLT 311, English Literature	3
Electives	6
Total Units Required	**24**

Select six (6) units from the following:
ENGCW 400, 410, 420, 431, 450; ENGWR 302; ENGLT 303, 304, 325, 331, 332, 334, 335, 360, 380, 401, 480, 481, 494.

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

Sacramento City College provides reading and composition skills courses within three levels. Each is a distinct level of development and does not necessarily provide entrance to another.

English Assessment Requirement

To place in the appropriate level of instruction, all students enrolling in English skills or composition classes are strongly advised to complete the assessment process prior to registration in any classes. An alternative is designated course completion, which will provide entrance into certain classes.

Success in Reading, Writing, and English as a Second Language (ESL)

The success of our students is of utmost importance to us at Sacramento City College. For that reason, we strongly advise students to develop skills in the basics of reading and writing. By reading, we mean understanding and remembering what you read so that you will be able to learn the information in all of your textbooks. By writing, we mean spelling correctly, punctuating accurately, using the grammar of standard written English, and organizing ideas into paragraphs and essays that are clear, unified, and coherent.

For students who are non-native speakers of English, we strongly advise taking classes in our English as a Second Language program.

With a strong foundation in the skills of reading and writing, your opportunities for success in college-level classes will be greatly increased.

The student literary journal, Susurrus, is annually produced by the students in ENGCW 450, a three-unit laboratory class. 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.

English - Creative Writing (ENGCW)

ENGCW 400 Creative Writing 3 Units

Formerly: ENGL 15

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
The course emphasizes writing of poetry, short fiction, and autobiography. It includes analysis of student work by instructor and class in a workshop atmosphere. Students explore their creative impulses through the medium of language, and not only learn the techniques of poetry, fiction and autobiography, but also develop appreciation of literature by creating it. This course may be taken twice for credit.

ENGCW 410 Fiction Writing Workshop 3 Units

Formerly: ENGL 15A

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC(ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
This is a creative writing course designed for students who wish to concentrate on fiction writing. The course will be conducted in a workshop format, which will focus primarily on constructive, in-class analysis of students' short stories and/or novel chapters. Through lecture, discussion, assigned reading, and in-class writing exercises, students will examine critically the elements of literary creation. Students will keep a journal and prepare a portfolio of their work. This course may be taken twice for credit.

ENGCW 420 Poetry Writing Workshop 3 Units

Formerly: ENGL 15B

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC(ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
This is a creative writing course for students who wish to concentrate on poetry writing. The workshop format will focus on analysis of poetry written by students in the class. Through lecture, discussion, assigned reading, collaborative writing projects and in-class writing exercises, students will examine literary devices in contemporary poetry and will practice revising and editing. Students will prepare a portfolio of original work. The course may be taken twice for credit.

ENGCW 431 Autobiography Writing Workshop 3 Units

Formerly: ENGL 15E

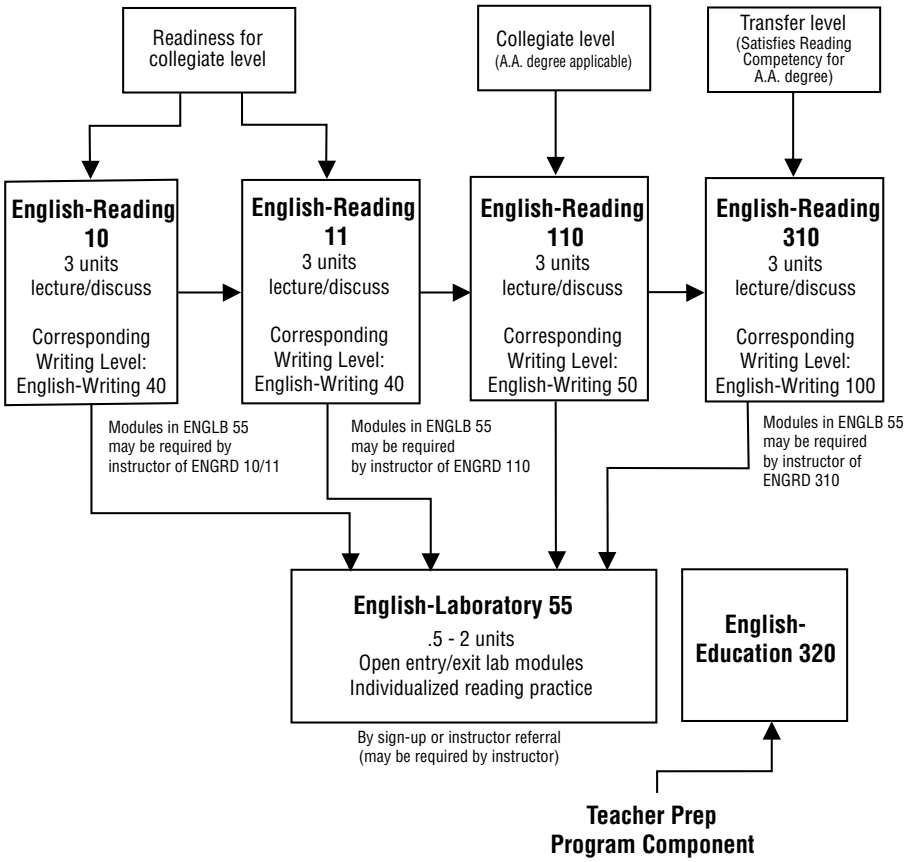
Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC(ENGCW 400, 410, 420, and 431, maximum 9 units)/CSU
54 hours Lecture
This is a creative writing workshop in autobiography and creative non-fiction. The class focuses on constructive, in-class analysis of personal essays written by students. Through lecture, discussion, collaborative writing, assigned reading, out-of-class interviews, and in-class writing exercises, students will examine critically the elements of personal, ecological, multi-cultural, multi-generational, multi-disciplinary, and mythological writing. Students will interview family members and other people of personal significance, keep a journal, and prepare a portfolio of completed work. This course may be taken twice for credit.

ENGCW 450 College Literary Magazine 3 Units

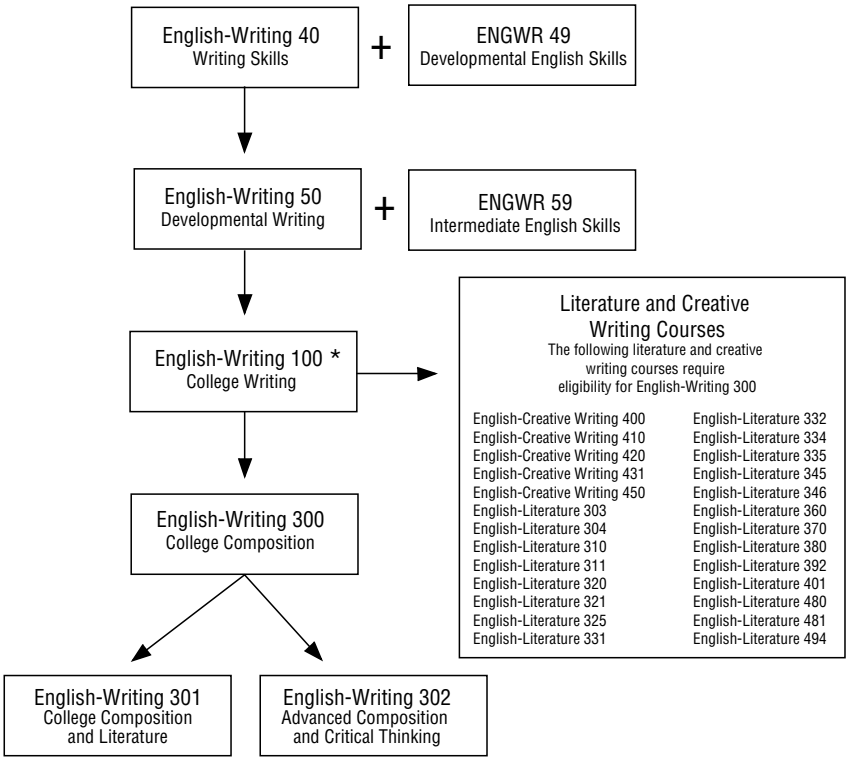
Formerly: ENGL 17

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in techniques and experience in writing, editing, and structuring the college literary magazine. Students will write, select, and edit manuscripts and graphics, discuss and design layout, process copy for printing and participate in magazine production. Students will gain experience in marketing, distribution and other matters related to production management. The class may be taken four times for credit.

Reading Curriculum



English Curriculum



* Fulfills Written Expression Competency for associate degree

English - Education (ENGED)

ENGED 305 Structure of English 3 Units

Formerly: ENGL 2

Prerequisite: ENGWR 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is a study of the structure of English grammar systems, especially as they relate to writing. It includes the study and practice of traditional and transformational grammar, standard usage, with emphasis on the relationship of grammar to writing (2000 word writing requirement); it also includes the study of the history of the English language and varied methods of language acquisition among the culturally diverse population in California schools. It is designed for those who plan to teach or who are especially interested in grammar as it relates to writing. ENGED 305 meets the CSU requirement for Liberal Studies and English majors.

ENGED 320 Service Learning: Tutoring Elementary Students in Reading 3 Units

Formerly: ENGL 10

Prerequisite: ENGRD 110 with a grade of "C" or better or assessment into ENGRD 310.
General Education: AA/AS Area E2
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers students an opportunity to learn and practice basic methods of tutoring elementary children to read. Students will meet on campus for the first part of the semester to be trained, and then will be assigned to a nearby elementary school where they will have in-depth practice tutoring elementary children who are reading below grade level. This course is one of the two required field experience courses for the CSUS Blended Teacher Preparation Program and may be taken twice for credit. Prior to beginning work in the schools, students may be required to be fingerprinted and pass a TB test.

English - Laboratory (ENGLB)

ENGLB 55 Individualized Reading Skills .5-2 Units

Formerly: ENGL 267

Prerequisite: None
108 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction of reading skills ranging from word attack skills through critical reading. There is a strong emphasis on content-based reading. Students meet with an instructor for diagnosis of reading needs and an agreed upon prescription is then determined. Students are awarded units based on the successful completion of work assigned and post testing. One-half unit requires 27 hours of lab time. Students may earn .5 to 2 units per semester and repeat this class until reaching a maximum of six units. This lab class may be required by instructors of ENGRD 10, 11, 110, and 310 for students needing additional skills work and may be added until the end of the twelfth week. It will be graded on a Credit/No Credit basis.

English - Literature (ENGLT)

ENGLT 303 Introduction to the Short Story 3 Units

Formerly: ENGL 42

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to introduce students to the art of the short story and critical analysis. It will provide a history of the short story and distinguishing characteristics of the genre. The emphasis will be on the connections between literature and the human experience. The purpose will be to help students develop an understanding of and an appreciation for literature.

ENGLT 304 Introduction to Poetry 3 Units

Formerly: ENGL 43

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
Designed to introduce students to poetry, ENGLT 304 includes analysis and appreciation of poems by a wide variety of traditional and contemporary poets. This course focuses on how to respond as a reader and how to help give poetry meaning in the light of one's accumulated feelings, interests, and ideas.

ENGLT 310 English Literature 3 Units

Formerly: ENGL 35

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys significant works in English literature from Beowulf through the works of Alexander Pope. This course requires critical reading of poetry, novels, essays, and plays as well as written analysis and significant research about these texts. Other works and writers include Sir Gawain and the Green Knight, Geoffrey Chaucer, Edmund Spenser, William Shakespeare, Christopher Marlowe, John Milton, John Donne, Renaissance lyric poets, Aphra Behn, and Jonathan Swift.

ENGLT 311 English Literature 3 Units

Formerly: ENGL 36

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course offers a survey of significant works in English literature from Romanticism in the 18th century to post colonialism in the 20th century. Students will read poetry, novels, plays and nonfiction prose by a variety of authors, including Wordsworth, Coleridge, the Brownings, Dickens, Yeats, Joyce, Woolf, Ezekiel and Walcott. Field trips may be required.

ENGLT 320 American Literature 3 Units

Formerly: ENGL 30

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys representative works in American literature from approximately 1493-1865. Readings and discussion will highlight the multicultural nature of American literature and society. Students will read a variety of stories, novels, autobiographical narratives and poetry by such authors as Edgar Allen Poe, Nathaniel Hawthorne, Fredrick Douglass, Anne Bradstreet, Washington Irving, Harriet Jacobs, Herman Melville and Phillis Wheatley.

ENGLT 321 American Literature 3 Units

Formerly: ENGL 31

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys representative works in American literature from approximately 1865 to the present. Readings and discussion will highlight the multicultural nature of American literature and society. Students will read a variety of stories, novels, plays and poetry by such authors as Mark Twain, Henry James, Kate Chopin, Ernest Hemingway, F. Scott Fitzgerald, Langston Hughes, Zora Neal Hurston, Black Elk, Richard Wright, Toni Morrison, Sandra Cisneros, and Maxine Hong Kingston.

ENGLT 325 Modern American Literature of Social Criticism 3 Units

Formerly: ENGL 32

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
Students read and discuss selected American novels, poems, and plays dealing explicitly with social problems and attitudes. Emphasis will be on novels of literary or historical importance, particularly novels. Topics may include, but will not necessarily be limited to, such problems or themes as industrialization, urbanization, poverty, race relations, sexual equality, and war. Students will gain greater insight into and understanding of the American mosaic through this course in which they will read at least four full-length novels.

ENGLT 331 African-American Literature (1730-1930) 3 Units

Formerly: ENGL 40A

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
ENGLT 331 is a study of major African American authors and their literature from 1730-1930. This course includes critical reading of slave narratives, autobiographies, essays, novels, short stories, poetry, and folklore. Some of the writers studied include Lucy Terry, Jupiter Hammon, Fredrick Douglass, Phillis Wheatley, David Walker, William Wells Brown, Frances Harper, Booker T. Washington, W. E. B. DuBois, Charles Chestnut, Alaain Locke, Zora Neale Hurston, and many others. Field trips may be required.

ENGLT 332 African-American Literature (1930-Present) 3 Units

Formerly: ENGL 40B

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
English 332 is a study of major African American authors and their literature from 1930-present. This course includes critical reading of autobiographies, essays, novels, short stories, poetry, and folklore. Some of the writers studied include Richard Wright, Ann Petry, Gwendolyn Brooks, Amiri Baraka, Owen Dodson, August Wilson, Rita Dove, J. California Cooper, BeBe More Campbell, Mari Evans, Ralph Ellison, Maya Angelou, Toni Morrison, Alice Walker, bell hooks, and many others. Field trips may be required.

ENGLT 334 Asian-American Literature 3 Units

Formerly: ENGL 37B

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys autobiographies and fiction written by Asian Americans. The course focuses primarily on works written by Filipino-, Chinese-, Japanese- and Korean-Americans, but also includes the work of other Pan-Asian American writers. Students explore the ways these writers shape their experiences of being Asian Americans in America and examines the differences and similarities of these experiences across cultures, generations, and genders. Field trips may be required.

ENGLT 335 Latino, Mexican-American, and Chicano Literature 3 Units

Formerly: ENGL 37D

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys U.S. literature (prose, poetry, drama, creative non-fiction) authored by Latino, Mexican-American, and Chicano writers. Emphasizing the historical and cultural roots of this body of literature, the course examines the contested meanings of such concepts as: Latino, Mexican-American, and Chicano identity; the relationship between social/political activism and literary expression; immigration and the border; and gender relations and sexuality within the many Latino communities. Special attention will be paid to literary forms such as the corrido, the testimonio, and the Chicano theater movement. Knowledge of some Spanish is helpful, but not required. Field trips may be required.

ENGLT 345 Mythologies of the World 3 Units

Formerly: ENGL 26

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course offers a thematic approach to myth and legend from a variety of cultures, stressing the following types of stories: beginnings of the world, creation of living creatures, explanation of natural phenomena, relationships between gods and mortals, and deeds of superhumans, destruction, death and afterlife.

ENGLT 346 Latin American Literature 3 Units

Formerly: ENGL 37E

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the literature of Latin America. The course is taught in English and the texts will be read in translation. Beginning with pre-Columbian literature, the course examines the relationship of history and culture to literary production. Literary movements such as the Boom, the New Latin American Cinema, and magical realism will be studied. Major authors may include Nobel Prize winners Pablo Neruda, Gabriel García Márquez, Rigoberta Menchú, and Octavio Paz. The course examines both literary texts and films. Knowledge of some Spanish is helpful, but not required. Field trips may be required.

ENGLT 360 Women in Literature 3 Units

Formerly: ENGL 27

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys literature by and/or about women. It emphasizes American and British writers and the multicultural nature of the women's canon. Readings may include literature from any nation, culture, or historical period and focus on a comparative analysis of gender issues.

ENGLT 370 Children and Literature 3 Units

Formerly: ENGL 39

Prerequisite: Eligibility for ENGWR 300.
Acceptable for credit: CSU
General Education AA/AS Area C
54 hours Lecture
This course is a survey of the best literature, past and present, created for children, and of the criteria for selecting, evaluating, and discussing children's literature. It includes discussion of the history of children's literature and of current issues such as censorship, literacy, and multicultural diversity. This course is intended for prospective teachers, early childhood education (ECE) majors, librarians, and anyone who is or will be in frequent contact with children. It includes reading to children in a formal group situation.

ENGLT 380 Introduction to Shakespeare 3 Units

Formerly: ENGL 47

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
"All the world's a stage, and all the men and women merely players." This course will guide the student through interpretation of several of Shakespeare's most popular plays and sonnets by taking a close look at his language, themes, and values to illustrate Shakespeare's relevance in today's world. By bringing their own perspectives to the texts, students will appreciate the vitality and universality of Shakespeare's works.

ENGLT 392 Science Fiction and Fantasy 3 Units

Formerly: ENGL 38

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to significant works in science fiction and fantasy literature. Students will explore connections between the literature and concerns about social, ethical and scientific developments or trends. Authors may include Octavia Butler, William Gibson, Aldous Huxley, Ursula LeGuin, Neal Stephenson, J.R.R. Tolkein, and Kurt Vonnegut.

ENGLT 400 Introduction to Film (Same as TA 310) 3 Units

Formerly: ENGL 22A

Prerequisite: Eligibility for ENGWR 100 and ENGRD 110 or ESLR 320 and ESLW 320 or placement through the assessment process.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines 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 it compares and contrasts the commercial box office hit and "movie star" to enduring artistic films and actors. The course will view and analyze films to evaluate filmmaking techniques and the impact of films and the movie business on society.

ENGLT 401 Women in Film and Literature 3 Units

Formerly: ENGL 22

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
From its earliest days, Hollywood has played an important role in shaping and reflecting cultural assumptions, myths, and fears. This course examines the underlying messages about race and gender in Hollywood's portrayal of women. The course also compares and contrasts representation of different groups of women, including minority and marginalized, in independent and experimental films. In addition to viewing a variety of film genres, the reading assignments include works of fiction and essays from sociology, psychology, linguistics, and critical theory.

ENGLT 480 World Literature: Antiquity to the Early Modern World - Honors 3 Units

Formerly: ENGL 23H

Prerequisite: Admission to the Honors Program and eligibility for ENGWR 300.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a comparative study of works that have made important contributions to world literature. Students learn to recognize and explain developmental stages and important themes in representative works written from the seventeenth century to the present and to analyze multicultural issues the works address. Students analyze literary expressions of values, ideas, and multicultural issues typical of major world cultures. An important purpose of the course is to examine significant aspects of culture, social experiences, and contributions of non-western cultures. The class is conducted as a seminar in which students give at least one oral presentation and write a minimum of 6,000 words, including at least two textual analyses and one research paper.

ENGLT 481 World Literature: The Modern World/Seventeenth Century - Present - Honors 3 Units

Formerly: ENGL 24H

Prerequisite: Admission to the Honors Program and eligibility for ENGWR 300.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a comparative study of works that have made important contributions to world literature. Students learn to recognize and explain developmental stages and important themes in representative works written from the seventeenth century to the present and to analyze multicultural issues the works address. Students analyze literary expressions of values, ideas, and multicultural issues typical of major world cultures. An important purpose of the course is to examine significant aspects of culture, social experiences, and contributions of non-western cultures. The class is conducted as a seminar in which students give at least one oral presentation and write a minimum of 6,000 words, including at least two textual analyses and one research paper.

ENGLT 494 Topics in English - Literature 3 Units

Formerly: ENGL 25

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course is scheduled as needed under a title describing specific content. Students study the works of a significant writer or group of writers, or of work on one theme, region, vocation, or human experience. Possible titles: Death in Literature, The Literature of the Occult, Film and Literature, The Hero in Fiction, The Love Story, The Literature of War. Not recommended as substitute for genre or survey courses. May be taken twice for credit.

English - Reading (ENGRD)

ENGRD 10 Basic Reading Skill Development **3 Units**

Formerly: ENGL 200A

Prerequisite: Eligibility is determined by the assessment process.
54 hours Lecture
This course provides competency-based instruction for improving basic word attack, literal comprehension, vocabulary development, dictionary skills, and word parts. The course is graded A-F and may be taken twice for credit. Completion of modules in ENGLB 55 may be required by the instructor.

ENGRD 11 Reading Skill Development **3 Units**

Formerly: ENGL 200B

Prerequisite: Eligibility is determined by the assessment process or completion of ENGRD 10 with a grade of "C" or better.
Advisory corequisite: ENGWR 40.
54 hours Lecture
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 Efficient Reading **3 Units**

Formerly: ENGL 71

Prerequisite: Eligibility is determined by the assessment process or completion of ENGRD 11 with a grade of "C" or better.
Advisory: Completion of ENGWR 40 with a grade of "C" or better.
54 hours Lecture
This course is designed to develop efficient reading skills required of community college students. Areas of concentration include vocabulary development, literal and inferential comprehension skills, and study reading as applied to fiction, non-fiction, and textbooks. Individual work in the Reading Lab (ENGLB 55) may be required by the instructor. This course may be taken twice for credit. This course satisfies the Allied Health reading prerequisite and is the prerequisite for ENGRD 310.

ENGRD 310 College Analytical and Speed Reading **3 Units**

Formerly: ENGL 4

Prerequisite: Eligibility is determined by the assessment process or completion of ENGRD 110 with grade of "C" or better.
Advisory: Completion of ENGWR 50 with a grade of "C" or better.
AA/AS: Reading Competency
Acceptable for credit: CSU
54 hours Lecture
This course covers theory and practice of critical reading skills and speed needed for performance with emphasis on the following: 1) critical and analytical evaluation of printed material, 2) vocabulary development, 3) proficient comprehension skills, 4) development of flexible reading rate and speed, and 5) application in textbook, fiction, and nonfiction reading. One or more additional hours per week may be required in the Reading Lab, ENGLB 55.

English - Writing (ENGWR)

ENGWR 40 Writing Skills **3 Units**

Formerly: ENGL 255

Prerequisite: None
Corequisite: Concurrent enrollment in ENGWR49.
Advisory: Concurrent enrollment in ENGRD 11.
54 hours Lecture
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 formal 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 be enrolled concurrently in ENGWR 49. ENGWR 40 may be taken twice for credit.

ENGWR 49 Developmental English Skills **2 Units**

Prerequisite: None
36 hours Lecture
This course offers individualized, guided, self-paced learning for students to practice basic grammar, punctuation, usage, spelling, sentence and paragraph-writing skills. Students take this course concurrently with ENGWR 40. This course is also open to other students seeking help to improve their writing and/or grammar skills. Students complete a required number of assignments designed to help them master specific writing skills. This course is credit/ no credit.

ENGWR 50 Developmental Writing **3 Units**

Formerly: ENGL 256

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 40 with a grade of "C" or better.
Corequisite: ENGWR 59.
Advisory: Concurrent enrollment in ENGRD 110 and/or ENGLB 55.
54 hours Lecture
This developmental writing class offers individualized and group instruction for students who need to improve their ability to write increasingly complex and varied formal paragraphs and to advance to the writing of short essays. Each student writes a minimum 2,500 words divided into at least twelve writing assignments (formal and informal, to include paragraphs, short essays, and in-class, timed writings). Principles of basic grammar, effective sentence structure, formal paragraph, and short essay development are included. Reading is used to stimulate writing. Students must be enrolled concurrently in ENGWR59. This course may be taken twice for credit.

ENGWR 59 Intermediate English Skills — 2 Units

Prequisite: None
36 hours Lecture
The course offers individualized, guided, self-paced instruction for students to practice usage, syntax, sentence-, paragraph- and essay-writing skills. Students take this course concurrently with ENGWR 50. The course is also open to students enrolled in ENGWR 100 or ENGWR 300 and to other students seeking to improve their writing and/or grammar skills. Students complete assignments designed to help them master specific writing skills. This course is credit/no credit.

ENGWR 100 College Writing — 3 Units

Formerly: ENGL 57

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 50 with a grade of "C" or better.
Advisory: Concurrent enrollment in ENGRW 310 or ENGRD 110; concurrent enrollment in ENGWR 59 and/or ENGLB 55.
General Education: AA/AS Area D1 and writing competency
54 hours Lecture
This writing course uses individualized and group instruction to help students improve critical thinking and writing skills. Each student writes a minimum of 6,000 words including at least TWO in-class midterms and a departmental final exam. Writing assignments are often based on analysis of readings. The course prepares students for college composition and also satisfies graduation requirements. Instructors may require some students to complete additional individual work in the ENGWR 59. ENGWR 100 may be taken twice for credit.

ENGWR 300 College Composition — 3 Units

Formerly: ENGL 1A

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 100 with a grade of "C" or better.
Advisory: Concurrent enrollment in ENGWR 59 for some students; completion of ENGRD 310.
General Education: AA/AS Area D1 and writing competency
Acceptable for credit: UC (ENGWR 300 or 480, maximum one course)/CSU
54 hours Lecture
This writing course emphasizes reading, writing, and critical thinking skills that are essential for successful completion of a four-year college program. Students will write a minimum of 8,500 words divided among 6-8 essays, including at least one research paper and one in-class essay. Instructors may require some students to complete individual work in the ENGWR 59.

ENGWR 301 College Composition and Literature — 3 Units

Formerly: ENGL 1B

Prerequisite: ENGWR 300.
General Education: AA/AS Areas C, D1
Acceptable for credit: UC/CSU
54 hours Lecture
ENGWR 301 is an introduction to four major genres of imaginative literature: poetry, drama, short story and the novel. The course includes a review of critical thinking and introduces students to writing about literature. Students learn to analyze, interpret, and explicate literary works. Students are required to write a minimum of 6,000 words.

ENGWR 302 Advanced Composition and Critical Thinking — 3 Units

Formerly: ENGL 1C

Prerequisite: Completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS area D1
Acceptable for credit: UC/CSU
54 hours Lecture
This course further develops analytical skills through writing and discussion. It examines methods by which people are persuaded to think believe, and/or act. It also includes analyses of arguments or expressions of opinions for their validity and soundness. Finally, it focuses on critically assessing, developing and effectively expressing opinions on issues. It emphasizes thinking clearly and organizing thought carefully by using principles of logic. This course includes writing a minimum of 6,500 words.

ENGWR 330 Writing for Publication (Same as JOUR 340) — 3 Units

Formerly: ENGL 14A

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
54 hours Lecture
This is an introductory course in writing non-fiction for publication. Emphasis will be on developing a saleable magazine article; finding ideas; analyzing magazines; writing a query letter; researching and interviewing; organizing, writing, and illustrating an article.

ENGWR 330.1 Writing for Publication: Writing and Editing Concentration (Same as JOUR 340.1) — 1.5 Units

Formerly: ENGL 14C

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in writing and editing non-fiction articles for publication. The course will emphasize audience analysis, researching facts, conducting interviews, organizing articles, determining focus, preparing drafts, editing and rewriting. Students will have the opportunity to write a variety of types of articles and will be encouraged to prepare these for sale. Particular concentration will be on improving writing style, learning new styles and forms, looking for weaknesses in writing, developing an eye for areas that could be stronger, and learning how to rewrite. Students will learn copyediting and proofreading, and will get ample practice to make them more confident about editing their work.

ENGWR 330.2 Writing for Publication: Marketing Concentration (Same as JOUR 340.2) 1.5 Units

Formerly: ENGL 14D

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in developing salable magazine articles. The course will emphasize analyzing markets, writing query letters, focusing ideas, approaching editors, preparing articles for publication, working with editors on editing or changing articles, using information in a number of articles, and becoming familiar with a wide range of publications.

ENGWR 384 Mass Media and Society (Same as COMM 351 and JOUR 310) 3 Units

Formerly: ENGL 19

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course exploring the way people communicate experiences and utilize communication skills in a variety of situations ranging from intrapersonal to mass media levels. The discussion of basic communication models and processes will focus on how various cultural and social processes affect communication.

ENGWR 480 Honors College Composition 3 Units

Formerly: ENGL 1AH

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 100 with a grade of "C" or better; Students must also be eligible for admission to Honors Program.
Acceptable for credit: UC (ENGWR 300 or 480, maximum one course)/CSU
54 hours Lecture
ENGWR 480 offers the honors student a challenging course that will develop skills in composition and critical thinking. Students will analyze essays exhibiting a variety of structures and styles, and write a minimum of 8,500 words divided among at least five essays. Students will write carefully reasoned, stylistically sophisticated, properly documented essays of varying lengths. Students also lead discussions, workshop rough drafts, and may collaborate on presentations or projects.

English as a Second Language ESL

Division of Language and Literature

Julia Jolly, Dean

Rodda South 226

916-558-2325

NOTE: The University of California will allow only a maximum of 8 units for any combination of ESL level 310, 320 and 340 courses.

ESL 40 ESL Through Computer Technology 2 Units

Prerequisite: ESLL 30, ESLR 30, and ESLW 30 with grades of "C" or better or placement through the Sacramento City College assessment process.
Advisory: Concurrent enrollment in ESLL 40, ESLR 40, and/or ESLW 40.
27 hours Lecture; 27 hours Laboratory
This course is designed to introduce intermediate-low ESL students to the basic vocabulary patterns connected with computer usage. It includes use of student e-mail, the Sacramento City College Web site, basic word processing, and the Internet. This course is offered as credit/no credit only. This course may be taken twice for credit.

ESL 41 ESL Through Computer Technology and Studying Online 2 Units

Prerequisite: Completion with "Credit" of ESL 40, ESL Through Computer Technology.
Advisory: Concurrent enrollment in ESLL 40, ESLR 40, and ESLW40.
27 hours Lecture; 27 hours Laboratory
This course is designed to introduce the language and skills needed to enroll in and successfully complete a computer-assisted class. Emphasis will be on practicing communication skills in a computer classroom. It also includes use of e-mail, bulletin boards, and chat rooms to practice communication skills. Students will also use Web sites to practice critical reading skills. This course is offered as credit/no credit only. This course may be taken twice for credit.

ESL 45 College and Academic English 2 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 30, ESLR 30, and ESLW 30 with grades of "C" or better.
36 hours Lecture
This course introduces students to the basic structures and vocabulary of academic English necessary for success in a college setting. Students will learn vocabulary, idioms, verb tenses, question structure, and sentence patterns applicable to a college setting. Language structures will be applied to the concepts of the classroom, classwork, homework, teacher and student behaviors, test taking, and others. Students will also learn the language structures necessary to access services offered at SCC: counseling, tutorial, learning resources, and the ESL Center. This course is offered as credit/no credit only. This course may be taken twice for credit.

ESL 46 U.S. Culture and Academic English 2 Units

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 30, ESLR 30, and ESLW 30 with grades of "C" or better.
36 hours Lecture
This course introduces students to the basic structures and vocabulary of academic English which serve as a foundation to the understanding of American culture and institutions. Students will learn vocabulary, idioms, verb tenses, and sentence patterns which apply to basic American history and geography; the basic structure of government and its institutions; involvement in the community; common American values; and defining modern America. This course is offered as credit/no credit only. This course may be taken twice for credit.

ESL 91 **ESL Center: Skills in ESL** **.5-6 Units**

Formerly: ESL 275

Prerequisite: ESLR 30, ESLL 30, or ESLW 30 with grades of "C" or better or qualifying placement through the assessment process.
Advisory: Concurrent enrollment in at least one ESL course.
81 hours Laboratory
This course provides individualized, self-paced and/or small group instruction to non-native English speakers. A variety of self-study materials are available on such topics as grammar, composition, reading, vocabulary, listening, pronunciation, study skills, and workplace skills. Coursework is designed to develop and reinforce English language skills from beginning to advanced levels. Students may register until the end of the twelfth week of the semester if space allows. The course is credit/no credit and is not a substitute for other ESL courses. Students earn .5 unit of credit for every 27 hours of work. They may earn .5 to 1.5 units per semester and repeat this class until reaching a maximum of 6 units.

ESL 92 **ESL Center: Intermediate Independent Lab** **.5-1 Units**

Formerly: ESL 290

Prerequisite: Eligibility for ESL level 40.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced and/or small group instruction to non-native English speakers at the intermediate levels. This course can help students improve their writing skills at the sentence, paragraph, and essay level to succeed in ESL composition and other courses that require writing. This course can also help students who wish to do independent work in other skill areas. A variety of self-study materials are available on such topics as grammar, composition, reading, vocabulary, listening, pronunciation, study skills, and workplace skills to develop and reinforce their use of the English language. Students may register until the end of the twelfth week of the semester if space allows. This course is credit/no credit and is not a substitute for other ESL courses. Students can earn 0.5 unit of credit for each 27 hours of work. Students may earn up to one unit per semester. This course may be taken a maximum of four times for credit.

ESL 93 **ESL Center: Advanced Independent Lab** **.5-1 Unit**

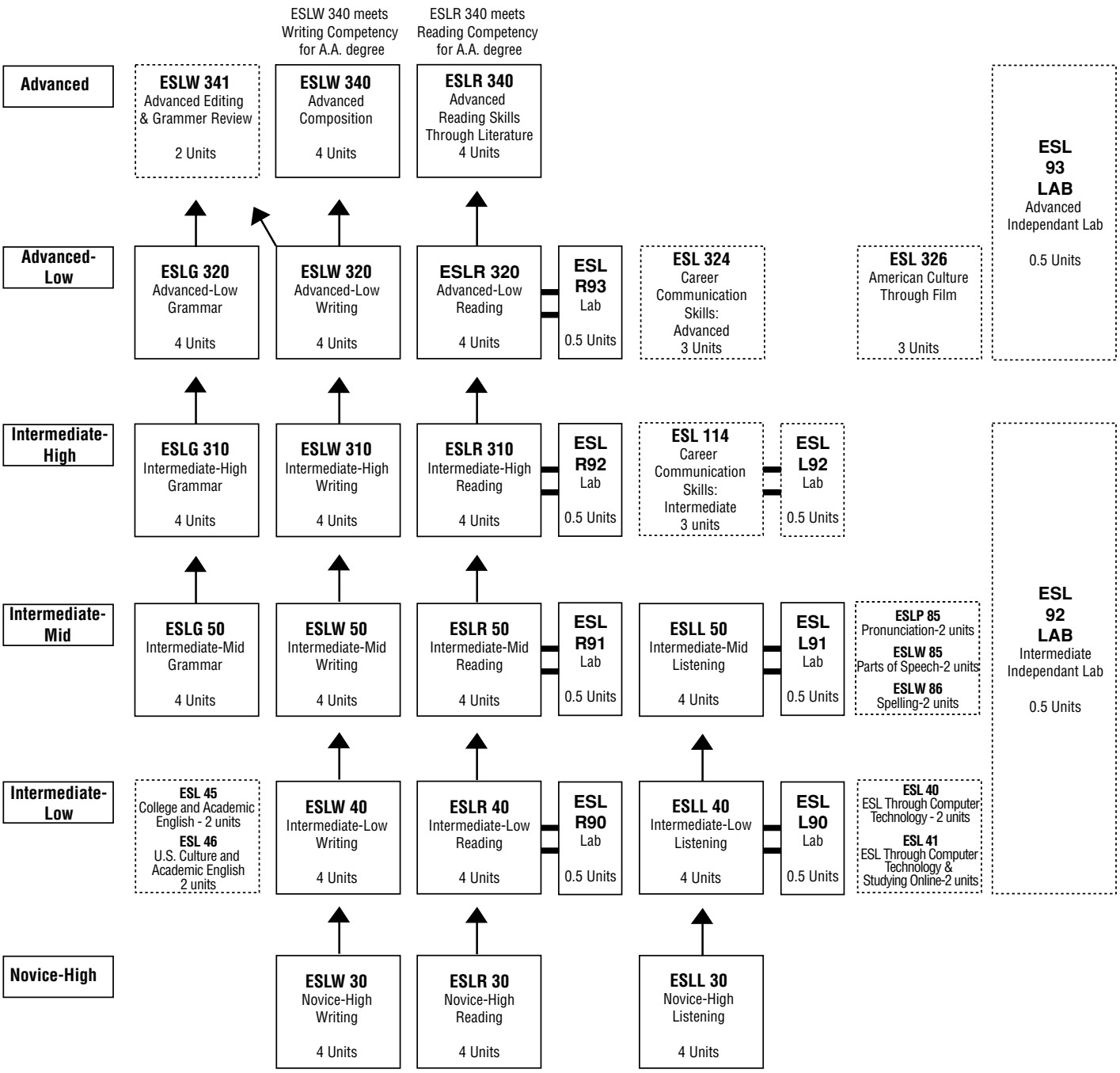
Prerequisite: Eligibility for ESL level 320.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced and/or small group instruction to non-native English speakers at the advanced levels. This course can help students improve their writing skills at the sentence, paragraph, and essay level to succeed in ESL composition and other courses that require writing. This course can also help students who wish to do independent work in other skill areas. A variety of self-study materials are available on such topics as grammar, composition, reading, vocabulary, listening, pronunciation, study skills, and workplace skills to develop and reinforce their use of the English language. Students may register until the end of the twelfth week of the semester if space allows. This course is credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 unit of credit for each 27 hours of work. Students may earn up to one unit per semester. This course may be taken a maximum of four times for credit.

ESL 114 **Career Communication Skills: Intermediate** **3 Units**

Formerly: ESL 64

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 50, ESLG 50, ESLW 50, and ESLR 50 with grades of "C" or better.
Corequisite: ESLL 92.
54 hours Lecture
This course offers 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.

English as a Second Language



1. Prerequisites are assessment at SCC or successful completion of the previous course only.
2. Prerequisites vary for Level 30, Labs, and Electives. *Please check prerequisites and corequisites carefully.*
3. ESLW 340 and ESLR 340 meet the Writing and Reading Competency requirements for the A.A. degree.
4. Courses numbered 300 and above are transferable. Check with a counselor about transfer requirements.
5. Elective courses are indicated by dotted lines and are open to students at the level indicated and all higher levels.

ESL 324 Career Communication Skills: Advanced 3 Units

Formerly: ESL 7

Prerequisite: Eligibility is determined by the Sacramento City College assessment process, completion of ESL 114 with a grade of "C" or better, or completion of ESLG 310, ESLW 310, and ESLR 310 with grades of "C" or better.
Advisory: ESL 93.
Acceptable for credit: CSU
54 hours Lecture
ESL 324 offers students advanced work in improving oral communication skills needed for success in college coursework and career development. Students examine cultural contrasts and misconceptions while participating in activities designed to promote peer and self-evaluation in communicative situations. In addition, intensive work in pronunciation and practice with functional language patterns help students gain a mastery of spoken English that will lead to more effective communication with instructors, classmates, supervisors, and colleagues.

ESL 326 American Culture Through Film3 Units

Formerly: ESL 8

Prerequisite: None
Advisory: Completion of ESLG 310, ESLW 310, and ESLR 310 with grades of "C" or better, or placement at the ESLG 320, ESLW 320, ESLR 320 or ESLW 340 level in the assessment process.
General Education: AA/AS Areas C, F
Acceptable for credit: CSU
54 hours Lecture
ESL 326 gives non-native speakers of English the opportunity to improve their listening, speaking, reading, and writing skills as they explore the cultural diversity of the United States through the medium of film. Students will watch, discuss, and write about movies chosen for their presentation of selected cultural topics. Lectures, readings, discussions, and written responses will focus on analysis, comparison, and contrast of various cultural groups, including the students' own. Most films will be viewed in class, but students will also select a small number of films to watch and review independently.

ESL - Grammar (ESLG)

ESLG 50 Intermediate-Mid Grammar 4 Units

Formerly: ESL 280G

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 40 with a grade of "C" or better.
Advisory: ESL 92, ESLL 50, ESLW 50, and ESLR 50, or other ESL courses at the appropriate level.
72 hours Lecture
This course concentrates on the fundamental grammatical structures of English. Students will develop skill and accuracy in using these grammatical structures in appropriate contexts. There will be much oral and written practice with an emphasis on sentence structure and verb tenses.

ESLG 310 Intermediate-High Grammar 4 Units

Formerly: ESL 1G

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLG 50 with a grade of "C" or better.
Acceptable for credit: CSU
Advisory: ESL 92, ESLW 310, and ESLR 310, or other ESL courses at the appropriate level.
72 hours Lecture
This course focuses on further practice of the forms, meanings, and usage of grammatical structures of English with an emphasis on verb usage.

ESLG 320 Advanced-Low Grammar 4 Units

Formerly: ESL 2G

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLG 310 with a grade of "C" or better.
Advisory: ESL 93, ESLW 320, and ESLR 320, or other ESL courses at the appropriate level.
Acceptable for credit: UC (any ESL courses, maximum 8 units)/CSU
72 hours Lecture
This course focuses on practice in the forms and meanings of major structures used in writing with an emphasis on clause structure. Oral practice reinforces the structures studied. Students practice writing extensively both in and out of class. Assignments emphasize sentence structure in the context of longer written work.

ESL - Listening (ESLL)

ESLL 30 Novice-High Listening and Speaking 4 Units

Formerly: ESL 260L

Prerequisite: None
Advisory: ESLR 30 and ESLW 30 or other ESL courses at the appropriate level; advise adult school before taking ESLL 30.
72 hours Lecture
This is a course in listening comprehension and practical conversation for non-native English speakers who plan to take college courses. Students will learn to recognize and use the sounds of American English, stress, rhythm, and intonation patterns. This course may be taken twice for credit.

ESLL 40 Intermediate-Low Listening and Speaking 4 Units

Formerly: ESL 270L

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 30 with a grade of "C" or better.
Corequisite: ESLL 90.
Advisory: ESLW 40 and ESLR 40 or other ESL courses at the appropriate level.
72 hours Lecture
This is a course to help students develop the listening and speaking skills needed to succeed in college courses. Students will

focus on developing phrases and sentences to communicate their ideas in familiar situations. The course includes group and individual listening and speaking activities, an overview of American English sounds, and practice in stress, rhythm, and intonation. This course may be taken twice for credit.

ESLL 50 Intermediate-Mid Listening and Speaking 4 Units

Formerly: ESL 280L

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLL 40 with a grade of "C" or better.
Corequisite: ESLL 91.
Advisory: ESLG 50, ESLR 50, and ESLW 50, or other ESL courses at the appropriate level.
72 hours Lecture
This is a course to help students understand and be understood in both familiar and unfamiliar situations. Students will be introduced to academic listening and speaking activities and will continue to work on pronunciation skills.

ESLL 90 ESL Center: Intermediate-Low Listening Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 40.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as listening, pronunciation, and vocabulary. Coursework is designed to develop and reinforce English language skills at the intermediate-low level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLL 91 ESL Center: Intermediate-Mid Listening Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 50.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as listening, pronunciation, and vocabulary. Coursework is designed to develop and reinforce English language skills at the intermediate-mid level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLL 92 ESL Center: Intermediate-High Listening Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 310.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as listening, pronunciation, vocabulary and workplace skills. Coursework is designed to develop and reinforce English language skills at the intermediate-high level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESL - Pronunciation (ESLP)

ESLP 85 Pronunciation 2 Units

Formerly: ESL 288P

Prerequisite: Eligibility is determined by the assessment process or completion of ESLL 40 with a grade of "C" or better.
36 hours Lecture
This elective course is designed for students who need to improve their pronunciation. It offers intensive practice in the pronunciation and recognition of American English sounds. Students will be introduced to intonation patterns of English, syllables, and stress. This course may be taken twice for credit.

ESL - Reading (ESLR)

ESLR 30 Novice-High Reading 4 Units

Formerly: ESL 260R

Prerequisite: None
Advisory: ESLL 30 and ESLW 30 or other ESL courses at the appropriate level; advise adult school before taking ESLR 30.
72 hours Lecture
This course focuses on reading words, phrases, and sentences in short texts. Students will learn core vocabulary, spelling rules, phonetics, and grammar necessary to understand short readings. This course may be taken twice for credit.

ESLR 40 Intermediate-Low Reading 4 Units

Formerly: ESL 270R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 30 with a grade of "C" or better.
Corequisite: ESLR 90.
Advisory: ESLL 40 and ESLW 40 or other ESL courses at the appropriate level.
72 hours Lecture
This course focuses on developing reading skills with an emphasis on building vocabulary, literal comprehension, and fluency. Students will discuss and write about readings.

ESLR 50 Intermediate-Mid Reading 4 Units

Formerly: ESL 280R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 40 with a grade of "C" or better.
Corequisite: ESLR 91.
Advisory: ESLL 50, ESLW 50, and ESLG 50, or other ESL courses at the appropriate level.
72 hours Lecture
The course focuses on the introduction of academic reading skills, with an emphasis on vocabulary development, literal comprehension, and dictionary skills. Students will practice critical thinking skills to understand, analyze, discuss, and write responses to ideas expressed in readings.

ESLR 90 ESL Center: Intermediate-Low .5-1 Unit Reading Skills in ESL

Prerequisite: Eligibility for ESL level 40.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the intermediate-low level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 91 ESL Center: Intermediate-Mid .5-1 Unit Reading Skills in ESL

Prerequisite: Eligibility for ESL level 50.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the intermediate-mid level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 92 ESL Center: Intermediate-High Reading Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 310.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the intermediate-high level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 93 ESL Center: Advanced-Low Reading Skills in ESL .5-1 Unit

Prerequisite: Eligibility for ESL level 320.
Advisory: Concurrent enrollment in at least one ESL course.
27-54 hours Laboratory
This course provides individualized, self-paced, and/or small group instruction to non-native English speakers. A variety of self-study materials and media are available on such topics as reading, vocabulary, and study skills. Coursework is designed to develop and reinforce English language skills at the advanced-low level. Students may register until the end of the twelfth week of the semester if space allows. The course is graded credit/no credit and is not a substitute for other ESL courses. Students earn 0.5 units of credit for every 27 hours of work. They may earn 0.5 to 1.0 units per semester and may take this class a maximum of four times for credit.

ESLR 310 Intermediate-High Reading 4 Units

Formerly: ESL 1R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 50 with a grade of "C" or better.
Corequisite: ESLR 92.
Advisory: ESLG 310 and ESLW 310, or other ESL courses at the appropriate level.
Acceptable for credit: CSU
72 hours Lecture
This course focuses on developing academic reading skills with an emphasis on speed, vocabulary expansion, and comprehension of ideas, and introduces students to library use. Students will use critical thinking skills to understand, paraphrase, summarize, and respond to ideas expressed in readings, either orally or in writing.

ESLR 320 Advanced-Low Reading 4 Units

Formerly: ESL 2R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 310 with a grade of "C" or better.
Corequisite: ESLR 93.
Advisory: ESLG 320 and ESLW 320, or other ESL courses at the appropriate level.
Acceptable for credit: CSU
72 hours Lecture
This course focuses on refining academic reading skills with an emphasis on speed, vocabulary development, and analytical comprehension. Students will practice research and synthesizing skills and do extensive writing based on critical analysis of readings.

ESLR 340 Advanced Reading Skills Through Literature 4 Units

Formerly: ESL 5R

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLR 320 with a grade of "C" or better.
Advisory: ESL 93, ESLW 340, or ESLW 210, or other ESL courses at the appropriate level
General Education: AA/AS Areas C, F, and reading competency
Acceptable for credit: UC (any ESL courses, maximum 8 units)/CSU
72 hours Lecture
This course is designed to improve vocabulary and reading skills for the advanced ESL learner. Students will gain an appreciation of various forms of literature from a variety of reading selections including essays, poetry, drama, short stories and novels. This course emphasizes critical thinking and reading skills needed for academic performance: (1) vocabulary development, (2) analysis and comprehension skills, (3) flexibility of reading rate. The course also emphasizes the comparison and contrast of universal and metaphorical themes, as applied in various cultures. It can be used to fulfill the Reading Competency requirement for the A.A. and A. S. degrees.

ESL - Writing (ESLW)

ESLW 30 Novice-High Writing 4 Units

Formerly: ESL 260W

Prerequisite: None
Advisory: ESLR 30 and ESLL 30 or other ESL courses at the appropriate level; advise adult school before taking ESLW 30.
72 hours Lecture
In this course, students will learn simple sentences and paragraph structures. This course is an introduction to writing in English for non-native speakers who plan to take college courses. This course may be taken twice for credit.

ESLW 40 Intermediate-Low Writing 4 Units

Formerly: ESL 270W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 30 with a grade of "C" or better.
Advisory: ESL 92, ESLL 40, and ESLR 40, or other ESL courses at the appropriate level.
72 hours Lecture
In this course, students will learn to write focused paragraphs with a clear beginning, middle, and end. They will learn to use critical thinking skills and correct grammar in their writing.

ESLW 50 Intermediate-Mid Writing 4 Units

Formerly: ESL 280W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 40 with a grade of "C" or better.
Advisory: ESL 92, ESLL 50, ESLR 50, and ESLG 50, or other ESL courses at the appropriate level.
72 hours Lecture
In this course, students will learn techniques essential to essay writing. They will continue to develop sentence structure in longer pieces of writing.

ESLW 85 Parts of Speech 2 Units

Formerly: ESL 288F

Prerequisite: Eligibility is determined by the assessment process or completion of ESLW 40 with a grade of "C" or better.
36 hours Lecture
This elective course covers the most important parts of speech in English. Students will learn to identify and use nouns, pronouns, adjectives, adverbs, verbs, prepositions, and conjunctions in basic sentences. This course may be taken twice for credit.

ESLW 86 Spelling 2 Units

Formerly: ESL 288S

Prerequisite: Eligibility is determined by the assessment process or completion of ESLR 40 and ESLW 40 with a grade of "C" or better.
36 hours Lecture
This elective course is designed for students who need to improve their spelling. It includes an introduction to the basic spelling rules and patterns of English. Students will also learn homophones, suffixes, and plurals. Students will develop competence in the ability to spell. This course may be taken twice for credit.

ESLW 210 Advanced Career Writing Skills 4 Units

Formerly: ESL 63W

Prerequisite: Eligibility is determined by the assessment process or completion of ESLW 320 and ESLG 320 with grades of "C" or better.
Advisory: BUSTEC 300, ESL 91, or other ESL courses at the appropriate level.
General Education: AA/AS Area D1 and writing competency
72 hours Lecture
In this course, advanced non-native English speakers will further develop writing skills and strategies. This computer-assisted course covers methods of organizing ideas, writing, and interpreting writing for college and career: memos, note taking, reports, resumes and business correspondence. It includes practice in paragraph and essay structure, grammar, punctuation, and mechanics. Keyboarding skills are strongly advised. The course is designed to fulfill graduation requirements for vocational ESL students, those who do not plan to transfer, or those who wish to gain further writing practice prior to taking ESLW 340 or BUS 310.

ESLW 310 Intermediate-High Writing 4 Units

Formerly: ESL 1W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 50 with a grade of "C" or better.
Acceptable for credit: UC (any ESL courses, maximum 9 units)/CSU
Advisory: ESL 92, ESLG 310 and ESLR 310, or other ESL courses at the appropriate level; BUSTEC 300.
72 hours Lecture
In this course, students will continue to develop their ability to respond to a variety of essay assignments. They will practice critical thinking skills through class discussion and written response to readings. They will refine their ability to control a range of sentence structures.

ESLW 320 Advanced-Low Writing 4 Units

Formerly: ESL 2W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLW 310 with a grade of "C" or better.
Advisory: ESL 93, ESLG 320 and ESLR 320, or other ESL courses at the appropriate level; BUSTEC 300.
Acceptable for credit: UC (any ESL courses, maximum 9 units)/CSU
72 hours Lecture
In this course, students will use critical thinking skills and the writing process to produce a variety of focused, developed, and organized essays. The course emphasizes sentence variety and the mechanics of English in the context of the essay. Essays will incorporate outside sources as well as personal experience.

ESLW 340 Advanced Composition 4 Units

Formerly: ESL 5W

Prerequisite: Eligibility is determined by the Sacramento City College assessment process or completion of ESLG 320 and ESLW 320 with grades of "C" or better, or completion of ESLG 320 and ESLW 210 with grades of "C" or better.
Advisory: BUSTEC 300; ESL 93, ESLW 341, and ESLR 340, or other ESL courses at the appropriate level.
General Education: AA/AS Area D1 and writing competency
Acceptable for credit: UC (any ESL courses, maximum 9 units)/CSU
72 hours Lecture
In this college composition course, students will apply critical thinking skills to writing. Writing assignments include expository and argumentative prose based on analysis of a variety of readings. Students will refine summarizing and paraphrasing skills. They will write a research paper with citations and bibliography. This course satisfies the Written Expression Competency requirement for graduation and the English Writing 300 requirement of some California colleges and universities.

ESLW 341 Advanced Editing and Grammar Review for ESL Writers 2 Units

Formerly: ESL 5E

Prerequisite: ESLW 320, or ESLG 320, or ENGWR 100, or BUS 310 with a grade of "C" or better or placement through the Sacramento City College assessment process.
Acceptable for credit: CSU
36 hours Lecture
This course is designed to increase awareness of common higher level ESL grammar errors typical to the composition process. Reading, writing, and editing exercises focus on improved analysis and the development of self-help strategies. This course is credit/no credit only. This course may be taken twice for credit.

Ethnic Studies

Associate in Arts Degree

African-American Emphasis

Mexican-American Emphasis

Asian-American Emphasis

Native-American Studies

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

The need for 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, demand, and experiences of Sacramento's minority communities. It can be of vital importance to the student because it makes available a new and fuller perspective on ethnic groups not ordinarily fully provided in educational institutions.

Program Information

At Sacramento City College a program is offered in the African-American, Mexican-American, and Asian-American areas. Introductory courses are offered in Native American (Indian) studies and general courses are offered on American minorities (SOC 321 and PSYC 367).

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 in the area of Ethnic Studies at the elementary or secondary level.

Recommended High School Preparation

Standard college preparatory program is desirable; however, this program is open to any student with sufficient interest.

Required Program for Major-African-American Emphasis

A minimum of 18 units from the following: SOCSC 320; ARTH 328, 330; ENGLT 331, 332; HIST 320, 321, 362.

Required Program for Major-Mexican-American Emphasis

A minimum of 18 units from the following: SOCSC 330, 332; ARTH 324; HIST 370, 371, 373, 344.

Required Program for Major-Asian-American Emphasis

A minimum of 18 units from the following: SOCSC 325; ARTH 332; HIST 364. 365; CANT 401, 402, 411, 412; MAND 401, 402, 411, 412; JAPAN 401, 402, 411, 412.

Courses in Native American Studies

Two courses are offered in this emphasis: SOCSC 335 and 336. They can be combined with courses from the programs above for a General Ethnic Studies major, or combined with the above and with other social science courses for a Social Sciences major.

Suggested Electives for Any of Above Programs

ANTH 310, 320; PSYC 300 or 350; PSYC 367; SOC 300, 320; courses from the alternate ethnic emphasis.

Associate in Arts (A.A.) Degree

The Associate in Arts degree may be obtained by completion of a minimum of 18 units from one of the Emphasis Programs, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Experimental Offering In (Subject) / Independent Studies In (Subject) / Topics In (Subject)

299/499 Experimental Offering in (SUBJECT) .5-5
299 Not transferable
499

Acceptable for credit: UC (Credit is contingent upon evaluation of course outline by each UC campus after transfer); CSU (elective units)

An Experimental Offering is a course that is offered on a trial basis. Experimental Offering courses can only be offered within one year and must be submitted for approval as a regular course or discontinued. Refer to the Schedule of Classes for more specific offerings.

295/495 Independent Studies in (SUBJECT) 1-3
295 Not transferable
495

Acceptable for credit: UC (Credit is contingent upon evaluation of course outline by each UC campus after transfer); CSU (elective units)

This is an Independent Studies course 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.

294/494 Topics in (SUBJECT) .5-4
294 Not transferable
494

Acceptable for credit: UC (Credit is contingent upon evaluation of course outline by each UC campus after transfer); CSU (elective units)

This is a Topics course that focuses on a specific knowledge or skill as described by a complete course outline of record that changes from term to term. This course may be developed in cooperation with industry to meet specialized training needs. In general, the topics discussed in this course are not included in current curriculum offerings. Topics courses may be repeated four times up to a maximum of 12 units, with no duplication of topics. Refer to the Schedule of Classes for more specific offerings.

These courses are available in the following subject areas:

ADMJ 499
AERO 494, 499
FLTEC 294
ANTH 494, 495, 499
ART 499
ASTR 494, 495, 499
BIOL 494, 495, 499
BUS 294
CHEM 494, 495, 499
CISC 494, 495
CISW 499
COMDE 499
COMM 494, 495, 499
COSM 294, 295, 299
ECE 294, 495, 499
ECON 495, 499
ENGR 494, 495, 499
EDT 494
ENGCW 495, 499
ENGED 495, 499
EVT 294
ENGLT 494, 495, 499
ENGRD 495, 499
ENGWR 495, 499
ET 295, 494, 495, 499
FCS 294, 495
FOREIGN LANGUAGES: CANT 495, 499; FREN 495, 499; GERM 495, 499; JAPAN 495, 499; MAND 495, 499; RUSS 495, 499; SPAN 495, 499; VIET 499
GEOG 495, 499
GEOL 494, 495, 499
GERON 494
GCOM 495
HCD 299, 495, 499
HEED 495, 499
HIST 494, 495, 499
HUM 495, 499
HSER 495, 499
JOUR 495, 499
LIBR 494
MKT 499
MGMT 499
MATH 494, 495
MET 294, 295, 499
MIT 295, 494, 495, 499
MUSM 494, 495, 499
PHIL 495, 499
PHOTO 494, 495, 499
PHYSICAL EDUCATION: ADAPT 494, 495, 499; DANCE 495, 499; FITNS 495, 499; PACT 495, 499; SPORT 495, 499; TMACT 495, 499; PET 494, 495, 499
PHYS 494, 495, 499
POLS 494, 495, 499
PSYC 494, 495, 499
RAILR 294
RE 499
RVT 294
SOC 494, 495, 499
SOCSC 494, 495, 499
STAT 495, 499
TA 494, 495, 499

Family and Consumer Science F C S
(Home Economics)

Associate in Arts Degree

Career Certificate

Certificate of Completion

Family and Consumer Science, Degree

Fashion Design and Production, Degree and Career Certificate

Interior Design Sewing, Degree and Career Certificate

Custom Apparel Construction and Alterations, Degree and Career Certificate

Fashion Sales, Certificate of Completion

Production Sewing, Certificate of Completion

Division of Behavioral and Social Science

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

Family and Consumer Science
Associate in Arts Degree

Career Opportunities: 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: Dietician, Foods Consultant, Market Consultant, Clothing Designer, Home Economics 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, and Child Development, Worker with the Aged.

Transfer Students: Students who plan to complete the Bachelor's degree in Home Economics or related fields at a 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 a teaching credential in Home Economics are advised to see a counselor for planning assistance and should read the Teacher Education section of this catalog (see Pre-Professional Programs).

Required Program	Units
FCS 340, Nutrition	3
FCS 344, Principles of Food Preparation	3
FASHN 320, Textiles	3
ECE 323, The Effective Parent Teacher	3
FASHN 310, Fashion Analysis	3
FASHN 351, Principles of Apparel Construction/Intermediate Sewing	3
FCS 320, Marriage and the Family, OR SOC 310	3
FCS 314, The Child, The Family and The Community	3
FCS 330, Sociology of Aging, OR GERON 300 OR SOC 335	3
IDES 300, Fundamentals of Interior Design	3
FCS 332, Psychology of Aging, OR GERON 302/PSYC 274	3
Total Units Required	**33**

Suggested Electives
FCS 324, 342.

Suggested Electives for Students Interested in Gerontology:
FCS 330, 340 (SOC 335 or GERON 300); PYSC 374 (GERON 302 or FCS 332); SOC 380, 382, 497.

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.

Fashion Design and Production

Associate in Arts Degree
Career Certificate

Career Opportunities: Students enrolled in this certificate program will learn to design and produce apparel. 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 for self-employment or entrepreneurship.

Required Program	Units
FASHN 140, Fashion Illustration	3
FASHN 150, Fundamentals of Sewing	3
FASHN 158, Fashion Accessories	3
FASHN 182, Making Your Own Dress Design	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	3
FASHN 361, Production Sewing	3
FASHN 370, Pattern Adjustment and Fit	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	**39**

Suggested Electives
FCS 352, FASHN 198, FASHN 355, FASHN 356, FASHN 360, FASHN 153; ACCT 301 or 101; ART 300, 320, 336; BUS 106, 120, 131, 157, 220; CISC 300; MGMT 372, 343; WEXP 298.

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

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

Interior Design Sewing

Associate in Arts Degree
Career Certificate

Career Opportunities: Students enrolled in this certificate program will learn how to assemble interior design soft products. Entry level jobs can be found in interior design workrooms, upholstery businesses and drapery workrooms. This program can also prepare the students for self-employment or entrepreneurship.

Required Program	Units
FASHN 320, Textiles	3
FASHN 150, Fundamentals of Sewing	3
IDES 300, Fundamentals of Interior Design	3
IDES 322, Materials of Interior Design	3
FASHN 361, Production Sewing	3
FASHN 153, Serger Fundamentals	3
IDES 402, Introduction to Interior Design	3
IDES 403, Advanced Interior Design Soft Furnishing Fabrication	3
Total Units Required	**24**

Suggested Electives
FASHN 198, 351; ACCT 301 or 101; ART 320; BUS 106, 131, 220; CISC 300; MGMT 372, 343; WEXP 298.

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

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

Custom Apparel Construction and Alterations

Associate in Arts Degree
Career Certificate

Students enrolled in this program will learn to repair, fit, and alter ready-to-wear clothing and construct clothing items. 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.

Required Program	**Units**
FASHN 320, Textiles	3
FASHN 310, Fashion Analysis/Clothing Selection	3
FASHN 150, Fundamentals of Sewing/Beginning Sewing	3
FASHN 351, Principles of Apparel Construction/Intermediate Sewing	3
FASHN 352, Advanced Apparel Construction/Couture	3
FASHN 370, Pattern Adjustment and Fit	3
FASHN 372, Pattern Making and Design	3
FASHN 355, Traditional Tailoring, OR FASHN 356, Contemporary Tailoring	3
FASHN 198, Sewing as a Business	3
FASHN 360, Clothing Alterations	3
FASHN 182, Making Your Own Dress Form	3
FASHN 183, French Draping	3
FASHN 153, Serger Fundamentals	3
Total Units Required	**39**

Suggested Electives
ACCT 301 or 101; ART 320; BUS 106, 131, 71; CISC 300; FASHN 376, the other tailoring course (FASHN 355 or 356), FASHN 361, 158, 140; MGMT 372, 343; WEXP 298.

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

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

Fashion Sales

Certificate of Completion, Level 2

Career Opportunities: Students enrolled in this certificate program will learn how to apply for a job and what is expected in performing the job of apparel or interior fashion sales. Entry level sales and counter jobs in this field can be found in dry-cleaning establishments, clothing stores, department stores, department and furnishing stores, and linen outlets.

Prerequisite for the Program:	**Units**
MATH 27, Self-Paced Basic Skills Mathematics, AND	.5-2
ENGLB 54, English Skills, AND	.5-3
ENGLB 55, Individualized Reading Skills	.5-2
OR	
ESLL 50, Intermediate-Mid Listening and Speaking, AND	4
ESLR 50, Intermediate-Mid Reading	4
Total	**1.5-10**

Required Courses	**Units**
FASHN 190, Fashion Sales	3
TECH 105, Foundations for Career Success (Customer Service emphasis)	3
WEXP 298	4
Total Units Required	**10**

Suggested Electives
HCD 310; BUS 157.

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

Production Sewing

Certificate of Completion, Level 3

Career Opportunities: Students enrolled in this certificate program will learn how to do production sewing for apparel or other sewn products. Entry level jobs can be found in apparel production plants or workrooms. This program can also prepare the student for self-employment or entrepreneurship.

Required Courses	**Units**
FASHN 150, Fundamentals of Sewing	3
FASHN 351, Principles of Apparel Construction	3
FASHN 361, Production Sewing	3
FASHN 153, Serger Fundamentals	3
Total Units Required	**12**

Suggested Electives
FASHN 320, 198, 158; WEXP 298.

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

Family and Consumer Science (FCS)

FCS 294 Topics in Family and Consumer Science .5-4 Units

Formerly: FCS 52

Prerequisite: None
36 hours Lecture; 54 hours Laboratory
Designed to give the students an opportunity to study topics in Family and Consumer Science that are consumer or job oriented and not included in current course offerings. May be repeated for credit providing there is no duplication of topics.

FCS 304 Concepts in Personal Finance 3 Units (Same as BUS 320)

Formerly: FCS 36

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 310 or BUS 310.
Acceptable for credit: CSU
54 hours Lecture
This course is designed to assist students in making informed choices related to spending, saving, borrowing, and investing for long-term financial security. Elements of financial planning, analysis, and decision making in the areas of money management, tax planning, banking services, consumer credit, insurance, housing, investments, and retirement and estate planning will be examined. This course meets the Living Skills graduation requirement.

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

Formerly: FCS 31

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

FCS 312 Child Development 3 Units

Formerly: FCS 34

Prerequisite: None
Advisory: Eligibility for ENGRD 310 and ENGWR 100.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will examine the physical, cognitive, and psychosocial growth and development of children from prenatal period through adolescence and the children as individuals and their needs in the modern world. Problems of interest to pre-teaching, pre-nursing, home economics majors, and other students interested in child development are discussed.

FCS 314 The Child, The Family and The Community (Same as SOC 312) 3 Units

Formerly: FCS 35

Prerequisite: None.
Advisory: FCS 312, Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the child in the family and community, influences on growth and development including media, social class, gender, sexual orientation, racial/ethnic groups, and their relationship to family behavior. Additionally, the effects of community activities and resources on family life are explored. (Credit for FCS 314 or SOC 312, but not both.)

FCS 320 Marriage and the Family 3 Units (Same as SOC 310)

Formerly: FCS 32

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will examine the social, psychological, historical and economic factors relating to changing family, marriage, remarriage and significant relationships. Exploration of the changing gender roles, the meaning of love and sexuality, dating, communication skills and parenting will also be included. (Credit for FCS 320 or SOC 310, but not both.)

FCS 324 Human Development: A Life Span (Same as PSYC 370) 3 Units

Formerly: FCS 38

Prerequisite: None
Advisory: ENGWR 100 or ENGRD 110.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will provide an overview of the physical, cognitive, social and emotional development from conception through the life span. The emphasis will be on the practical application of development principles. The course is designed as a foundation course for careers in educational, social and psychological, and medical fields.

FCS 326 Sex and Gender in the United States (Same as SOC 341) 3 Units

Formerly: FCS 37

Prerequisite: None.
Advisory: ENGWR 100 and ENGRD 110 or ESLW 340 and ESLR 340.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of the changing roles of women and

men in the United States. 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, but not both.)

FCS 330 Sociology of Aging 3 Units
(Same as GERON 300 and SOC 335)
Formerly: FCS 39

Prerequisite: None
Advisory: ENGWR 100, ENGRD 310, or ENGRD 110.
General Education: AA/AS Area B2.
Acceptable for credit: UC (FCS 330 or 332; maximum one course; FCS 330 or PSYC 374, maximum one course)/CSU
54 hours Lecture
This course examines the aged and 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/cultural differences. (Credit awarded for SOC 335 or FCS 330 or GERON 300.)

FCS 332 Psychology of Aging: Adult Development and Aging 3 Units
(Same as GERON 302 or PSYC 374)
Formerly: FCS 41

Prerequisite: None
Advisory: ENGWR 100 and ENGRD 310, or ENGRD 110.
General education: AA/AS Area E2.
Acceptable for credit: UC (FCS 330 or 332; maximum one course)/CSU
54 hours Lecture
This course will explore the description and explanation of the evolution of adult behavior over the life span. It will also include the study of the nature and changes of capacities, skills, feelings, emotions, and social behavior with age. (Credit for FCS 332 or PSYC 374, or GERON 302, but not for all three.)

FCS 340 Nutrition 3 Units
Formerly: FCS 10

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
General Education: AA/AS Area E2.
Acceptable for credit: UC (FCS 340 or 480, maximum one course)/CSU
54 hours Lecture
This course will include an in-depth study of essential nutrients, functions, chemical compositions of foods and their utilization in the body. The nutritional values of foods, current topics in nutrition and individual nutritional needs throughout the life cycle will also be covered.

FCS 342 Cultural Foods of the World 3 Units
Formerly: FCS 12

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, and MATH 100.
Acceptable for credit: UC/CSU
54 hours Lecture
Students will explore the typical food customs and meal patterns of various cultures throughout the world. Students will be introduced to the social, religious, economic and aesthetic significance of these cultures, and examine how geographical, agricultural and socioeconomic factors influence their nutritional status. Students will also explore the preparation and evaluation of the food products.

FCS 344 Principles of Food Preparation 3 Units
Formerly: FCS 13

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and MATH 34.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
Students will be introduced to scientific principles, which guide the selection, preparation, storage, and presentation of food. Required fieldtrips will demonstrate how class work is applied in the work place. The class is organized to introduce cooking essentials of foods through reading, and lecture; as well as providing lab experiences, in class and at home, to illustrate the principles discussed. Evaluation of the food products is a feature of this class.

FCS 346 Children's Health, Safety, and Nutrition 3 Units
(Same as ECE 415)
Formerly: FCS 14

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 110 and MATH 34.
Acceptable for credit: CSU
54 hours Lecture
Students will study how to maintain optimal health, safety, and nutritional status of children from the prenatal period through school-age, at home, and in group care. Projects related to nutrition, health and safety education are included as part of the curriculum. (Students may receive credit for FCS 346 or ECE 415, but not both.)

FCS 480 Nutrition Honors 3 Units
Formerly: FCS 10H

Prerequisite: Admission to the Honors program.
General Education: AA/AS Area E2
Acceptable for credit: UC/(FCS 340 or 480, maximum one course)/CSU
54 hours Lecture
This is an enriched study of nutrition for honors students. The course studies basic nutrients and their physiological functions. Current issues such as protein vegetarian plans, world hunger, complex carbohydrates, vitamin/mineral supplementation are studied. Evaluation and improvement of personal dietary is done using computer analysis. Scientific research methods are studied in journal articles for weekly seminars. Debates encourage critical thinking from opposing points of view. Lifestyles during pregnancy and infancy through aging are examined.

Fashion (FASHN)

FASHN 140 Fashion Illustration 2 Units

Formerly: FCS 73

Advisory: ENGWR 100 or ENGRD 110 with a grade of "C" or better or equivalent is advised.
18 hours Lecture; 54 hours Laboratory
Students will capture fashion styles and ideas and translate them to paper. The course is designed to develop graphic skills necessary for students planning a fashion career; learn principles of design factors which motivate fashion changes; and explore applications of principles of color and design, texture, line and proportion recognition. Students will create a portfolio of specific illustration techniques as applied to fashion promotion, fashion design or theatrical costume design industries. This course may be taken twice for credit.

FASHN 150 Fundamentals of Sewing/ Beginning Sewing 3 Units

Formerly: FCS 23A

Prerequisite: None
Advisory: Completion of ENGRD 110, ENGWR 100, and MATH 34 with grades of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course covers the basic techniques for construction of men's, women's, and children's clothing, and home accessories; including selecting materials and sewing supplies; sewing machine operation; instructions in reading patterns and simple construction techniques. One field trip is required. This course is designed for the student with little or no previous sewing experience and may be taken twice for credit.

FASHN 153 Serger Fundamentals 3 Units

Formerly: FCS 68

Prerequisite: FASHN 150.
36 hours Lecture; 54 hours Laboratory
This course will cover basic operation, care and use of serger sewing machines. Students will also learn about the various types, features, accessories, tools and notions necessary for applications in constructing serged projects. This course may be taken twice for credit.

FASHN 158 Fashion Accessories 3 Units

Formerly: FCS 66

Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
Students will learn the basic techniques necessary for the design, construction and marketing of headgear, soft jewelry, bags, scarves, belts, shoes and other contemporary fashion accessories. Topics will also include resources of materials and trims, production and marketing techniques, and the history and identification of various accessory items, along with basic manufacturing processes.

FASHN 162 Industrial Sewing - Sewing Machine Operations I 2 Units

Prerequisite: FASHN 351 and FASHN 153 with grades of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course provides training in basic industrial sewing machine operation. Students will learn to thread, operate and conduct minor maintenance on a variety of industrial sewing machines doing basic construction operations while maintaining quality of production and observing health and safety procedures. One field trip is required. This course may be taken twice for credit.

FASHN 163 Industrial Sewing - Sewing Machine Operations II 2 Units

Prerequisite: FASHN 162 with a grade of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course provides training in advanced industrial sewing machine operations. Students will learn to sew garments involving complex operations on a variety of industrial sewing machines doing more advanced construction operations while maintaining quality of production and observing health and safety procedures. One field trip is required. This course may be taken twice for credit.

FASHN 164 Industrial Sewing - Different Machine Types & Operations 2 Units

Prerequisite: FASHN 163 with a grade of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course provides training on advanced industrial sewing machine types and different sewing operations not covered in previous classes. Students will learn to sew garments using a variety of different industrial sewing machines involving complex operations handling materials, component parts and finished garments while maintaining quality of production and machinery and observing health and safety procedures. One field trip is required. This course may be taken twice for credit.

FASHN 165 Apparel Production - Marker Making, Laying Up & Cutting Operations I 2 Units

Prerequisite: FASHN 320, FASHN 351 and FASHN 372 with grades of "C" or better or equivalent.
Advisory: FASHN 376.
18 hours Lecture; 54 hours Laboratory
This course trains students in the skills and knowledge of making simple markers, laying up small pieces and rolls of materials and cutting an uncomplicated lay with industrial cutting equipment. Safety, preparation and care of equipment and dispatch to the next operation are stressed. One field trip is required. This course may be taken twice for credit.

FASHN 166 Apparel Production - Marker Making, Laying Up & Cutting Operations II 2 Units

Prerequisite: FASHN 165 with a grade of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course trains students in the skills and knowledge of making more complex markers, laying up multiple layers of materials and cutting complicated lays with industrial cutting equipment. Safety, preparation and care of equipment and dispatch to the next operation are stressed. One field trip is required. This course may be taken twice for credit.

FASHN 167 Apparel Mass Production 2 Units

Prerequisite: FASHN 164 and FASHN 166 with grades of "C" or better or equivalent.
18 hours Lecture; 54 hours Laboratory
This course explores the full range of mass production techniques including: Bundling cut work, making tickets and labels, clothing production setting up machinery for proper production sequence, fusing press workstations, basic garment pressing, advanced techniques to complete various sections of a garment, and finishing operations. Production processes within the industry will be explored. One field trip is required. This course may be taken twice for credit.

FASHN 182 Making Your Own Dress Form 3 Units

Formerly: FCS 64

Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is an innovative course in the construction of a personalized dress form which will duplicate the student's body in contour, bone structure and posture. Students will cast and cover their own dress or body form and learn how to use the form in various ways. This course may be taken twice for credit.

FASHN 183 French Draping 3 Units

Formerly: FCS 65

Prerequisite: FASHN 150 with a grade of "C" or better or equivalent.
Advisory: FASHN 372 with a grade of "C" or better or equivalent.
36 hours Lecture; 54 hours Laboratory
This is an advanced creative course designed to give the student variation in dressmaking design through the media of fabric manipulation or draping on full scale or half-scale dress forms. Students will drape several garments in muslin and one final garment in fashion fabric. This course may be taken twice for credit.

FASHN 190 Fashion Sales 3 Units

Formerly: FCS 80

Prerequisite: None
Advisory: Completion of ENGRD 100, ENGWR 100 and MATH 24 with grades of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course surveys job opportunities and needed skills in the apparel and interior fashion product sales profession. The course is designed to give the student the basics of fashion terminology, product knowledge and techniques for consumer product selection. Good customer service, retail math, using tools of the transaction and additional job qualities and skills to maintain employability are also included. One field trip will be required to give students a chance to integrate classroom knowledge with first-hand experiences.

FASHN 198 Sewing as a Business 3 Units

Formerly: FCS 59

Prerequisite: FASHN 150.
54 hours Lecture
Students will learn the fundamentals of setting up and running a sewing related business. The emphasis will be on sewing and related technologies, with components in accounting, bookkeeping, computer applications, and business writing.

FASHN 310 Fashion Analysis/Clothing Selection 3 Units

Formerly: FCS 21

Prerequisite: Eligibility for ENGWR 100 and ENGRD 110 and MATH 34 with a grade of "C" or better.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
This is an introduction to the socio-psychological aspects of clothing within the U.S. culture. U.S. clothing behavior (economic and political influences on fashion, fashion terminology; past and present fashion cycles) are contrasted with other contemporary cultures around the world. Essential theories of color perception and applied problems dealing with color interaction, line design and texture will be presented. Analysis of wardrobe planning, buying ready-to-wear, care and maintenance of family clothing are included.

FASHN 320 Textiles 3 Units

Formerly: FCS 20

Prerequisite: Eligibility for ENGWR 100 or ENGRD 110 and MATH 34.
Acceptable for credit: UC/CSU
54 hours Lecture
This is a consumer-oriented introduction to textiles which includes study of the characteristics of fibers, yarns, fabric construction including weaves and fabric finishes. Information related to consumer satisfaction in selecting and caring for fabrics, apparel, furnishing and other textile products in daily use will be presented.

FASHN 330 History of Western World Fashion 3 Units

Formerly: FCS 22

Prerequisite: None
Advisory: Completion of ENGWR 100 and ENGRD 110 with grades of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course is a survey of the history of western world fashion from ancient times to the 21st century. Students will identify apparel design details and trace the evolution of garments and the specific periods in which they were popular as reflected in political, economic and social trends.

FASHN 351 Principles of Apparel Construction/Intermediate Sewing 3 Units

Formerly: FCS 23B

Prerequisite: FASHN 150 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course presents intermediate apparel construction techniques, such as working with more complex patterns, notions, fabrics, and pattern adjustments. Comprehensive custom sewing techniques for men and women will be applied to four student-made garments. The course may be taken twice for credit.

FASHN 352 Advanced Apparel Construction/Couture Sewing 3 Units

Formerly: FCS 23C

Prerequisite: Students must have the proficiencies acquired in FASHN 351 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course covers apparel construction techniques applied to several challenging designs that will be student-made using unusual and difficult fabrics. Use of couture as well as new construction techniques, applied to details and finishes found on more expensive garments will be explored. The course may be taken twice for credit.

FASHN 355 Traditional Tailoring 3 Units

Formerly: FCS 28

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The course is designed for the advanced clothing construction student who wishes to increase knowledge and proficiency in the many aspects of traditional tailoring. Instruction will include custom fitting, equipment, and garment components selection and steps in the very fine handwork details and techniques of traditional tailoring for men's and women's suits and coats. This course may be taken twice for credit.

FASHN 356 Contemporary Tailoring 3 Units

Formerly: FCS 29

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is for the advanced clothing construction student who wishes to increase knowledge and proficiency in the many aspects of contemporary tailoring. Instruction will include speed methods in custom fitting; equipment and garment components selection; and steps and techniques of contemporary tailoring for faster construction of men's and women's suits and coats. Field trips required. This course may be taken twice for credit.

FASHN 360 Clothing Alterations 3 Units

Formerly: FCS 60

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides instruction in techniques for operating commercial sewing machines, pressing equipment, and sewing tools to perform the various sewing skills in making ready-to-wear alterations and repairs. The student will analyze properly and improperly fitted garments and predict and perform alterations necessary for women's, men's and children's ready-to-wear garments. The course also teaches how to set up and operate your own in-home-based sewing business. Several field trips are required. This course may be taken twice for credit.

FASHN 370 Pattern Adjustment and Fit 3 Units

Formerly: FCS 25

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture
This course is a study of how to make patterns fit, measuring procedures and the relationship to a variety of body fitting differences. Extensive pattern adjustment techniques will be demonstrated, practiced and applied to the student's own "basic" dress pattern which will become the student's sloper for flat pattern design. Garment fitting techniques and refinements will be done through garment alterations on a fitting "muslin" of the "basic" dress. This class may be taken twice for credit.

FASHN 372 Pattern Making and Design 3 Units

Formerly: FCS 26

Prerequisite: FASHN 351 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers an introduction to the flat pattern method of apparel design. Students will develop/refine a personal sloper from a commercial basic pattern. This sloper will be used to create various full size patterns and a student designed garment. Pattern making techniques will be perfected with 1/2 or 1/4 size patterns. Students will learn how to combine pattern design variations to create new designs. This course may be taken twice for credit.

FASHN 376 Advanced Design - Drafting, Advanced Flat Pattern Techniques and Computer Aided Drafting **3 Units**

Formerly: FCS 27

Prerequisite: FASHN 372 with a grade of "C" or better.
Advisory: CISC 300
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course will include how to draft basic pattern pieces from measurements, create advanced slopers for the torso, basic jacket and knits and create advanced flat pattern design details. Students will be introduced to CAD, computer aided design. Everything that can be done by hand, can be done on the computer including: drawing flats (fashion illustrations of garment designs), pattern measuring and adjustments, flat pattern design techniques, "digitizing-in" patterns, grading patterns, layout and marker making and plotting pattern pieces. This course may be taken twice for credit.

Interior Design (IDES)

IDES 300 Fundamentals of Interior Design **3 Units**

Formerly: FCS 40A

Prerequisite: None
Advisory: Completion of ENGRD 110 or ENGWR 100, and MATH 100 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers the study and application of design principles and elements; influences of historical, cultural, and functional design factors; and the selection and arrangement of interior furnishings. An overview of career options in interior design will be included.

IDES 322 Materials of Interior Design **3 Units**

Formerly: FCS 40B

Prerequisite: None
Advisory: Completion of IDES 300, ENGRD 110, ENGWR 100, and MATH 34 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course covers properties and specific concerns of interior finish materials. Textiles, floor coverings, paint and wall coverings, window treatments, furnishings and counter materials will be included.

IDES 402 Introduction to Interior Design - Soft Furnishings Fabrication **3 Units**

Formerly: FCS 69A

Prerequisite: FASHN 351.
Advisory: IDES 300 and IDES 322.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The students will learn the application of sewing skills to create interior design soft furnishing projects such as table and bed linens, cushions, curtains and shades, and simple slipcover upholstery. Students will create projects using the unique tools, fabrics and techniques that professionals use.

IDES 403 Advanced Interior Design - Soft Furnishings Fabrication **3 Units**

Formerly: FCS 69B

Prerequisite: IDES 402.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The student will learn to apply sewing skills to created advanced interior design soft furnishing projects such as more complex table and bed linens, slip covers, draperies, and chair upholstery. A field trip is required.

Fine Arts

Associate in Arts Degree

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

A major in General Fine Arts may be obtained by completing a combination of 18 units from courses in ART, ARTH, HUM, MUFHL, MUIVI, MUP, MUSM, PHOTO, and TA. A student must take courses from at least four of the five areas.

Associate in Arts Degree (A.A.)

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

Foreign Languages

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Chinese - Cantonese/Mandarin
Farsi
French
German
Japanese
Korean
Russian
Spanish
Tagalog
Vietnamese

Chinese - Cantonese (CANT)

CANT 401 Elementary Cantonese 4 Units

Formerly: CHIN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This beginning course in Cantonese Chinese emphasizes pronunciation drill, sentence pattern analysis, and the development of language skills in listening, speaking, reading, and writing. Fundamentals of character reading and writing will be introduced.

CANT 402 Elementary Cantonese 4 Units

Formerly: CHIN 1B

Prerequisite: CANT 401 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
This course is the continuation of CANT 401. Further acquisition of language skills in listening, speaking, reading, and writing will be emphasized. Basic character reading and writing will be introduced. Students will gain proficiency in understanding and speaking Cantonese in everyday situations.

CANT 411 Intermediate Cantonese 4 Units

Formerly: CHIN 2A

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture; 18 hours Laboratory
This course is the continuation of CANT 402 with a review of grammar and further development of reading and writing skills in Cantonese. Passages from Chinese literature and reading on Chinese culture will be studied.

CANT 412 Intermediate Cantonese 4 Units

Formerly: CHIN 2B

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
This course is the continuation of CANT 411 with further development of reading and writing skills in Cantonese. Passages from Chinese literature and reading on Chinese culture will be studied.

Chinese - Mandarin (MAND)

MAND 101 Conversational Mandarin, Elementary 3 Units

Formerly: CHIN 50A

Prerequisite: None
54 hours Lecture
This beginning course in conversational Mandarin emphasizes the development of oral language skills essential for understanding and speaking elementary Mandarin useful for everyday communication.

MAND 102 Conversational Mandarin, Elementary 3 Units

Formerly: CHIN 50B

Prerequisite: None
54 hours Lecture
This course is a continuation of MAND 101. Further acquisition of language skills in understanding and speaking will be emphasized. Additional vocabulary and sentence patterns will be introduced. Students will gain proficiency in understanding and speaking Mandarin in everyday situations.

MAND 401 Elementary Mandarin 4 Units

Formerly: CHIN 11A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture; 18 hours Laboratory
This beginning course in Mandarin Chinese emphasizes pronunciation drill, sentence pattern analysis, and the development of language skills in listening, speaking, reading, and writing. Character reading and writing are introduced.

MAND 402 Elementary Mandarin 4 Units

Formerly: CHIN 11B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture; 18 hours Laboratory
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.

MAND 405 Chinese Characters 1 Unit

Formerly: CHIN 20

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture
This is a beginning course in the study of Chinese characters. Fundamentals of the Chinese written language will be taught with an emphasis on reading and writing Chinese characters common in daily usage. This course may be repeated once for credit.

MAND 411 Intermediate Mandarin 4 Units

Formerly: CHIN 12A

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
This course is the continuation of MAND 402 with a review of grammar and further development of reading and writing skills in Mandarin. Passages from Chinese literature and reading on Chinese culture will be studied.

MAND 412 Intermediate Mandarin 4 Units

Formerly: CHIN 12B

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
This course is the continuation of MAND 411 with further development of reading and writing skills in Mandarin. Passages from Chinese literature and readings on Chinese culture will be studied.

Farsi (FARSI)

FARSI 401 Elementary Farsi 4 Units

Formerly: FARSI 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This beginning course is an introduction to Farsi, the modern language of Iran. The course will focus on the development of all language skills (listening, reading, speaking and writing) in a cultural context with specific emphasis on communication.

FARSI 402 Elementary Farsi 4 Units

Formerly: FARSI 1B

Prerequisite: Completion of FARSI 401 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a second semester course in Farsi, the modern language of Iran. The course continues with the development of all language skills (listening, reading, speaking and writing) in a cultural context with special emphasis on communication.

French (FREN)

FREN 101 Conversational French, Elementary 3 Units

Formerly: FREN 50A

Prerequisite: None
54 hours Lecture
Course provides students with basic listening and speaking skills and with limited facility in reading and writing skills. Major emphasis is on the ability to express one's basic needs with accurate pronunciation and intonation. Audio-lingual practice helps to achieve above goals. This course may be taken twice for credit.

FREN 102 Conversational French, Elementary 3 Units

Formerly: FREN 50B

Prerequisite: FREN 101.
54 hours Lecture
This course provides further development of a basic understanding of spoken French; emphasis upon vocabulary, idioms, and expressions in daily use. This course may be taken twice for credit.

FREN 111 Conversational French, Intermediate 3 Units

Formerly: FREN 51A

Prerequisite: FREN 102 and 402 or qualifying score on Language Placement Test.
54 hours Lecture
This third semester course is conducted exclusively in French and provides students with continued practice in developing their skills for meaningful communication in the target language. Students will engage in interactive social situations based on practical and relevant topics. This course may be taken twice for credit.

FREN 112 Conversational French, Intermediate 3 Units

Formerly: FREN 51B

Prerequisite: None
54 hours Lecture
The emphasis of this course is on further development of the student's speaking ability and self-expression in relevant situations. The concentration of this course of study is on the correct verb and tense mastery and on the expansion of vocabulary as well as further mastery of useful idioms and language patterns. The course may be taken for credit.

FREN 401 Elementary French 4 Units

Formerly: FREN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This course offers the basic language skills with special emphasis on listening, comprehension, and speaking. Provides thorough training in the fundamentals of structure so that the student shall learn to understand spoken French; to speak French with reasonable fluency and accurate pronunciation; and to read and write French at an elementary level.

FREN 402 Elementary French 4 Units

Formerly: FREN 1B

Prerequisite: FREN 401 with a grade of "C" or better or two years high school French.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
In this course there will be further development of the skills outlined in FREN 401, with emphasis on authentic French dialogues with comprehensive pronunciation drills, systematic and concise description of structures, cultural readings and numerous exercises for both oral and written practice.

FREN 411 Intermediate French 4 Units

Formerly: FREN 2A

Prerequisite: FREN 402 with a grade of "C" or better or three years of high school French.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
More emphasis is put on fluency and "free" composition combined with an analytical review of grammar structures on an intermediate level. Topics of current events in France are discussed and selections of French literature are read, interpreted and analyzed.

FREN 412 Intermediate French 4 Units

Formerly: FREN 2B

Prerequisite: FREN 411 with a grade of "C" or better or four years of high school French.
General Education AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
There will be further development of the skills outlined in French 411 with emphasis on the reading, interpretation and analysis of French literary works.

German (GERM)

GERM 101 Conversational German, Elementary 3 Units

Formerly: GERM 50A

Prerequisite: None
54 hours Lecture
The course provides speaking and understanding skills and a limited facility in the skills of reading and writing. The vocabulary needed in everyday situations is stressed. Students will be introduced to various cultural aspects of the German-speaking countries. This course may be taken twice for credit.

GERM 401 Elementary German 4 Units

Formerly: GERM 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a beginning course providing for the development of speaking, writing, understanding, and reading skills. The readings focus on German culture.

GERM 402 Elementary German 4 Units

Formerly: GERM 1B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
This course is a continuation of GERM 401. Speaking, writing, understanding, and reading skills will be further developed. The readings focus on German culture.

GERM 411 Intermediate German 4 Units

Formerly: GERM 2A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
This course includes the reading and discussion of 20th century German literature, continued development of reading, writing, understanding, and speaking skills, and a grammar review.

GERM 412 Intermediate German 3 Units

Formerly: GERM 2B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
54 hours Lecture
At least two works of German literature will be studied and analyzed.

Japanese (JAPAN)

JAPAN 101 Conversational Japanese, Elementary 3 Units

Formerly: JAPAN 50A

Prerequisite: None
54 hours Lecture
JAPAN 101 teaches pronunciation, intonation, basic vocabulary, idioms, and grammar of spoken Japanese. The grammar emphasizes word order, postpositions and some conjugation in simple sentences. The course includes introduction to Japanese culture. This course may be repeated once for credit.

JAPAN 401 Elementary Japanese 4 Units

Formerly: JAPAN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
JAPAN 401 teaches pronunciation, intonation, basic vocabulary and grammar of spoken Japanese. The grammar emphasis is word order, postpositions and some conjugation in simple sentences. Students are required to learn Hiragana script. The course includes introduction to Japanese culture.

JAPAN 402 Elementary Japanese 4 Units

Formerly: JAPAN 1B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
JAPAN 402 continues teaching vocabulary, idioms, and grammar, including more complex subordinate phrases and clauses.

In addition to Hiragana, students are required to learn Katakana and simple Kanji ideographs. Discussions on Japanese culture continue.

JAPAN 411 Intermediate Japanese 4 Units
Formerly: JAPAN 2A

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
JAPAN 411 continues teaching vocabulary, idioms and grammar with emphasis on more complex sentence patterns requiring understanding of additional verb forms. Students are required to learn about 150 new Kanji ideographs. Students are encouraged to learn some Japanese language skills independently using media and teaching aids. Discussions on Japanese culture are continued.

JAPAN 412 Intermediate Japanese 4 Units
Formerly: JAPAN 2B

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
JAPAN 412 continues teaching vocabulary, idioms and grammar with emphasis on Japanese speech styles. Students are required to learn additional Kanji and to read and write simple sentences of literary Japanese. The course includes discussions of some aspects of Japanese culture. (JAPN SEQ B Sum of CAN JAPN 8 and JAPN 10)

Korean (KOREAN)

KOREAN 401 Elementary Korean 4 Units
Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
Elementary Korean 401 is designed for those who have minimal or no knowledge of Korean. The course will provide equal emphasis on reading, writing, speaking and listening skills. The course is intended to help students acquire and develop a solid foundation of the modern Korean language.

KOREAN 402 Elementary Korean 4 Units
Prerequisite: Korean 401 with a grade of "C" or better.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
The basic language skills of reading, writing, speaking and comprehension are further developed in this course. The class introduces students to Korean script, hangul, as well as more complex grammatical concepts including connectives and indefinite pronouns.

Russian (RUSS)

RUSS 401 Elementary Russian 4 Units
Formerly: RUSS 1A

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
72 hours Lecture
RUSS 401 teaches Russian alphabet pronunciation, grammar, elementary reading, writing and conversation. The grammar emphasizes noun declension and verb conjugation. The course includes discussions on Russian culture.

RUSS 402 Elementary Russian 4 Units
Formerly: RUSS 1B

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
RUSS 402 continues teaching elementary reading, writing and conversation. The grammar includes noun and adjective declensions and verb conjugation. Discussion on Russian culture is continued.

Spanish (SPAN)

SPAN 101 Conversational Spanish, Elementary 3 Units
Formerly: SPAN 50A

Prerequisite: None
54 hours Lecture
This introductory course provides students with basic elementary skills of understanding and speaking Spanish. Common expressions needed to communicate in everyday living will be stressed, and emphasis will be on conversation. Students will be introduced to various cultural aspects of different Spanish speaking countries. This course may be repeated once for credit.

SPAN 102 Conversational Spanish, Elementary 3 Units
Formerly: SPAN 50B

Prerequisite: None
54 hours Lecture
This second semester course will continue to provide students with basic elementary skills of understanding and speaking Spanish. Common expressions needed to communicate in everyday living will be stressed. Emphasis will be on conversation and correct pronunciation. Students will be introduced to various cultural aspects of different Spanish speaking countries. This course may be repeated once for credit.

SPAN 111 Conversational Spanish, Intermediate 3 Units

Formerly: SPAN 51A

Prerequisite: None
54 hours Lecture
This third semester course is conducted exclusively in Spanish, and it provides students with continued practice in developing their skills for meaningful communication in the target language. Students will engage in interactive, social situations based on practical and relevant topics being studied. This course may be repeated once for credit.

SPAN 112 Conversational Spanish, Intermediate 3 Units

Formerly: SPAN 51B

Prerequisite: None
54 hours Lecture
The emphasis of this course is primarily to develop the speaking ability of the students' self-expression in brief, practical discussions. The concentration of this course is on verb-tense mastery, vocabulary, and idioms. This course may be repeated once for credit.

SPAN 401 Elementary Spanish 4 Units

Formerly: SPAN 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This beginning course in Spanish is conducted almost entirely in Spanish. It emphasizes the development of language skills in listening, reading, speaking, and writing by focusing on the application of simple grammatical concepts.

SPAN 402 Elementary Spanish 4 Units

Formerly: SPAN 1B

Prerequisite: Grade of "C" or better in SPAN 401.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
The four skills - understanding, speaking, reading and writing - are further developed in this course. The class studies the following grammatical concepts: indirect objects, the preterite tense, the reflexive, the formal command, the present subjunctive, and the imperfect tense. The students prepare short oral talks in most of the above. Also, they do short paragraphs in most of the above in class and outside of class. The vocabulary includes the home, vacations, jobs, childhood and youth, and the restaurant. The emphasis is on speaking.

SPAN 411 Intermediate Spanish 4 Units

Formerly: SPAN 2A

Prerequisite: Grade of "C" or better in SPAN 402.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a third semester course in Spanish which completes the presentation of basic Spanish grammar and the development of all language skills (listening, reading, speaking, and writing) in a cultural context with special emphasis on communication.

SPAN 412 Intermediate Spanish 4 Units

Formerly: SPAN 2B

Prerequisite: Grade of "C" or better in SPAN 411.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a fourth semester course designed to review the grammar, vocabulary, and composition acquired in the first three semesters. Contextualized and culturally appropriate exercises and readings of modern texts of the history, geography, art, literature, and cultural values of the Hispanic peoples are used. The four language skills (listening, reading, speaking, and writing) are further developed through special emphasis on communication.

SPAN 431 Spanish for Business 3 Units

Formerly: SPAN 21A

Prerequisite: SPAN 411.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course, conducted entirely in Spanish, is designed to develop language skills in speaking, reading, writing, and listening comprehension using business style situations. The course will also focus on a concise review of key grammar points.

SPAN 432 Spanish for Business 3 Units

Formerly: SPAN 21B

Prerequisite: SPAN 411.
General Education: AA/AS Area C
Acceptable for credit: CSU
54 hours Lecture
This course, conducted entirely in Spanish, is designed to develop language skills in speaking, reading, writing, and listening comprehension using business style situations. The course will also focus on a concise review of key grammar points.

SPAN 434 Spanish for the Professions - Intermediate 3 Units

Formerly: SPAN 52A

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This in an intermediate course designed for persons in law enforcement, business and finance, social services and medical personnel. The emphasis of the course is on acquiring verbal facility in interviewing, collecting data, giving instructions and general courtesies. The course will help students to acquire language proficiency while reviewing and broadening the grammar foundation attained in elementary Spanish. It will introduce specific vocabulary necessary for professionals to successfully communicate in a professional situation. Cultural and behavioral attitudes appropriate for relating to persons of Hispanic heritage will be suggested. The course may be repeated once for credit.

SPAN 435 Spanish for the Professions - Intermediate 3 Units

Formerly: SPAN 52B

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a continuation of SPAN 434. Intermediate course for persons in law enforcement, business and finance, social services, and medical personnel. The emphasis of the course is on acquiring verbal facility in interviewing, collecting data, giving instructions and general courtesies. Students will continue reviewing and broadening grammar foundations and introducing specific vocabulary necessary for professionals to successfully communicate in a professional situation. Cultural and behavioral attitudes appropriate for relating to Hispanics will be suggested.

Tagalog (TGLG)

TGLG 401 Elementary Tagalog 4 Units

Formerly: TGLG 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
TGLG 401 is an introduction to Tagalog. The course teaches Tagalog sounds, pronunciation, pitch and intonations, basic vocabulary and grammar. Grammar will emphasize simple sentences, sentence formations, verb conjugations and functions. The development of basic skills (listening, speaking, and writing) in a cultural context will be a special focus.

TGLG 402 Elementary Tagalog 4 Units

Formerly: TGLG 1B

Prerequisite: Completion of TGLG 401 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is a second semester course in Tagalog that continues with the basic grammar and further development of all language skills. TGLG 402 continues teaching vocabulary, idioms and more complex phrases and readings. Discussion of Filipino-American culture continues.

Vietnamese (VIET)

VIET 401 Elementary Vietnamese 4 Units

Formerly: VIET 1A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This course will provide an introduction to the Vietnamese language at the Novice Low Level, which is characterized by an emerging ability to understand and produce appropriate responses in high-frequency situations utilizing learned materials, standardized messages, phrases and expressions including numbers, dates, days, weather, time, foods, and Vietnamese names. Speaking and writing will be comprehensible to a sympathetic listener, including a native speaker used to interacting with non-native speakers. Verbal written expression is limited to short, culturally-appropriate communication, including kinship terms and nouns of address. Students will acquire a knowledge and an appreciation of the geography, culture and people of regions where Vietnamese is spoken and of Vietnamese-speakers' contributions to North American and world-wide culture.

VIET 402 Elementary Vietnamese 4 Units

Formerly: VIET 1B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
72 hours Lecture
This course will provide continued refinement of the Novice Low Level skills begun in 401 while working toward the Novice Mid and High Levels. The student will gain increased accuracy; and improve ability to understand and produce appropriate responses in high frequency situations utilizing learned materials, standardized messages, phrases and expressions, including numbers, dates, days, weather, time, foods, and name of family members; and improved ability to understand discourse on an increased number of topics. Speaking and writing will be comprehensible to a sympathetic listener, including a native speaker used to interacting with non-native speakers, and will demonstrate an emerging ability to create with the language. Verbal and written expression will be limited to short, culturally appropriate communication with greater accuracy and on a broader scale of topics than that found at the 401 level. Students will acquire knowledge and an appreciation of the geography, culture and people of regions where Vietnamese is spoken and of Vietnamese-speakers' contributions to North American and world-wide culture.

General Education, Transfer

Associate in Arts Degree

This degree is designed for students who plan to transfer to a California State University or University of California. It fulfills the lower-division general education requirement at UC campuses or CSU campuses. It is NOT appropriate for Engineering or Science majors or other high unit majors. It provides students with all requirements to receive an Associate in Arts Degree from Sacramento City College.

NOTE: Students must meet with a counselor if they are pursuing a General Education Transfer major since it is not appropriate for every transfer major. This degree does not guarantee admission to a CSU or UC. A counselor can assist students with that process.

Required Program

Complete option A or B below

Option A

California State University-39 units minimum

General Education, Breadth Requirements:

Communication: Oral, Written, Critical Thinking (9 units)

Physical Universe and Its Life Forms (9 units)

Arts, Literature, Philosophy, Foreign Language (9 units)

Human, Social, Political, Economic Institutions (9 units)

Lifelong Understanding (3 units)

OR

Option B

Intersegmental General Education Transfer Curriculum (IGETC): 37-40 units minimum

English Communication (9 units for CSU; 6 units for UC)
Mathematical Concepts and Quantitative Reasoning (3 units)
Arts and Humanities (9 units)
Social/Behavioral Sciences (9 units)
Physical and Biological Sciences (7 units)

Complete the following additional Associate in Arts Degree requirements:

- **Living Skills**

  Necessary if Option B is used.

  See AA/AS Graduation Requirements, Area E.

- **Ethnic/Multicultural Studies - one course**

  Necessary if a course from General Education does not already meet this requirement.

  See AA/AS Graduation Requirements, Area F, For a list of courses.

- **Reading competency**

  Competency can be satisfied by test score or course completion.

  See AA/AS Graduation Requirements, Reading Competency, for specific requirements.

- **Complete electives (see a counselor)**

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

General Studies, Non-Transfer

Associate in Arts Degree

This program is designed for students who may not be planning to transfer to a four-year college and who need to explore possibilities before committing themselves to a program.

The program may serve the purposes of students who have been out of school and who need to review and assess their academic skills and interests before embarking on a definite major program.

Courses may be selected according to individual need. It is recommended that the exploratory student try a variety of courses involving as many areas as possible. A major in General Studies, Non-Transfer, may be obtained by completing a minimum of 18 units in at least four areas from the following lettered groups (A-E). **Courses used to satisfy general education may NOT be used to meet the major requirement.** Consult a counselor for help with selecting appropriate courses.

Required Courses

Complete a minimum of 18 units from the following groups (A-E), including at least one course from four of the five groups.

Courses used to satisfy general education may NOT be used to meet the major requirement.

A. Learning Skills: Choose from the following: BUS 100, 106, 310; ENGRD 310, ENGWR 100, ESLG 310, ESLW 310, ESLR 310, ESLG 320, ESLW 320, ESLR 320, ESLW 340, ESLR 340; Foreign Language 401; MATH 100, 110; COMM 371; TECH 103.

B. Cultural Studies (Humanities): Choose from the following: ECE 360, 362; any Art, Humanities, Philosophy, Theatre Arts, Music.

C. General Social Sciences: Choose any from the following: ADMJ 300, 340; BUS 300, ECON 100; FCS 312, 314, 330; POLS 301; PSYC 356, 360, 367, 390; SOCSC 320, 330, 325, 332, 335, 336; SOC 300, 310, 312, 320, 341.

D. Science Skills and Concepts: In addition to the course used for general education, choose any of the following: BIOL 305, 350, 440; CHEM 330; FCS 340; GEOG 300; GEOL 308; PHYS 310.

E. Exploratory Business and Technology: BUS 300; GCOM 300; HCD 300 -any sections; BUSTEC 100, 115, 300; RE 300; TECH 310, 315; MIT 310, 320.

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

Geography GEOG

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

GEOG 300 Physical Geography: Exploring Earth's Environmental Systems 3 Units

Formerly: GEOG 1

Prerequisite: None
Advisory: MATH 234 with a grade of "C" or better or equivalent, and ENGRD 310 and ENGWR 100, or equivalent, with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a spatial study of planet Earth's dynamic physical systems and processes. Topics include weather, climate, landforms, natural hazards, water resources, vegetation and soils. Emphasis is placed on interrelationships among Earth systems and processes and their resulting patterns and distributions. Relevant application of these concepts to today's world is also stressed to help students better understand Earth's physical environment as well as human-environmental interaction.

GEOG 301 Physical Geography Laboratory 1 Unit

Formerly: GEOG 11

Prerequisite: None
Corequisite: GEOG 300 may be taken concurrently or taken before GEOG 301.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course will provide laboratory study and field observation of selected geographic phenomena including: the earth grid system and location theory, weather and climate, rocks and landform, soils, flora, and fauna. Emphasis will be on applying scientific methods, techniques, using scientific instruments, working with maps, and interpreting spatial phenomena. There will be required field trips.

GEOG 306 Weather and Climate 3 Units

Prerequisite: None
Advisory: GEOG 300 with a grade of "C" or better; concurrent enrollment in MATH 34
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to atmospheric processes including energy and moisture exchanges, atmospheric pressure, winds, and global circulation. Severe weather conditions such as hurricanes and tornadoes are also studies. World, regional, and local climates are investigated. Student work will include weather observations and analysis of atmospheric data using charts, weather maps, and radar and satellite imagery from the Internet and other sources. Because this course involves the use of some quantitative concepts, students are encouraged to have fundamental algebraic skills prior to enrolling in this course.

GEOG 310 Human Geography: Exploring Earth's Cultural Landscapes 3 Units

Formerly: GEOG 2

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100, or equivalent, with a grade of "C" or better.
General Education: AA/AS Areas B2 and F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course investigates the diverse patterns of human settlement, development, and movement on earth, which evolved as a result of cultural and environmental factors. Emphasis is placed on understanding global population and migration patterns, language, religion, ethnicity, political and economic systems, development issues, agriculture, and urbanization.

GEOG 312 Resources, Environment & People - Economic Geography 3 Units

Formerly: GEOG 5

Prerequisite: None
Advisory: MATH 34 or equivalent with a grade of "C" or better and ENGRD 310 and ENGWR 100 or equivalent with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course describes the principal resources used by people in an environmental setting with regard to location and distribution of economic activities including farming, forestry, mining, manufacturing, trade and transportation. Emphasis will be placed on the various roles of government, industry, and society in creating and resolving problems of resource use and environmental quality. The course will compare and contrast the philosophy of growth and development with the "Small is Beautiful" or "Steady State" economic theories. Students will discuss survival strategies and alternatives such as solar energy and geothermal power.

GEOG 320 World Regional Geography 3 Units

Formerly: GEOG 10

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100 or equivalent with a grade of "C" or better. For on-line delivery, familiarity with e-mail, web forums, and Internet multimedia.
General Education: AA/AS Area B2.
Acceptable for credit: UC (GEOG 320 or 480, maximum one course)/CSU
54 hours Lecture
This course is a global survey of the world's cultural regions. Basic geographic concepts and ideas are used to study and compare people, resources, landscapes, livelihood and economics, and origins across eight major geographic regions. The interaction of countries and regions, their global roles, and the conflicting pressures of cultural diversity versus globalization are presented. The widening gap between more developed and less developed countries is integrated throughout the course. Cultural and ethnic diversity, as it pertains to the expanding population of the United States, is evaluated throughout the course.

GEOG 322 Geography of California 3 Units

Formerly: GEOG 21

Prerequisite: None
Advisory: ENGRD 310 and ENGWR 100, or equivalent, with a grade of "C" or better.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of California's physical environment, considering basic changes resulting from use of the resource base. Landforms, vegetation, and hydrographic features of the State and their interrelationships will be covered. This course will also stress the way California's landscape has been altered by human actions, thereby introducing the student to contemporary problems of resource management.

GEOG 330 Introduction to Geographic Information Systems 3 Units

Formerly: GEOG 9

Prerequisite: None
Advisory: CISC 300, familiarity with IBM compatible computers and Microsoft Windows.
Acceptable for credit: UC/CSU
54 hours Lecture
A Geographic Information System (GIS) is a computer-based data processing tool used to manage and analyze spatial information. There are many applications for geographic information systems, including environmental assessment, analysis of natural hazards, site analysis for business and industry, resource management and land-use planning. This course introduces students to the tools and techniques of GIS including spatial data capture, management and analysis, as well as cartographic output through hands-on experience using GIS software.

GEOG 332 Introduction to Desktop GIS 2 Units

Formerly: GEOG 25A

Prerequisite: None
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course provides the foundation for and experience with using desktop geographical information system software (such as ArcView). It also provides the conceptual overview and hands-on experience needed to take advantage of the software's display and attribute querying functions. Emphasis is placed on basic software functionality, database construction, and management. This course is the first of a two-part series.

GEOG 333 Intermediate Desktop GIS 2 Units

Formerly: GEOG 25B

Prerequisite: GEOG 332.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course builds on the material presented in GEOG 322 and focuses on spatial analysis/querying and cartographic presentation. It provides the opportunity to utilize GIS software's advanced querying capabilities in analyzing spatial relationships in GIS. The course also introduces students to spatial analysis using available software.

GEOG 370 Introduction to GIS Programming 2 Units

Formerly: GEOG 27A

Prerequisite: GEOG 333.
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course introduces students to programming in GIS utilizing ArcView's proprietary programming language, Avenue. GIS programming allows the user to modify and customize ArcView's graphic user interface (GUI). Students will utilize this programming language to modify GIS tools and commands, create new GIS tools, automate GIS operations, and integrate ArcView with other software applications.

GEOG 390 Field Studies in Geography .5-4 Units

Prerequisite: None
Acceptable for credit: CSU
24 hours Lecture; 144 hours Laboratory
This course involves the study of geographic principles and processes in selected locations of geographic interest. 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. Course may be taken four times under a new topic or destination.

GEOG 480 World Regional Geography, Honors 3 Units

Formerly: GEOG 10H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area B2
Acceptable for credit: UC (GEOG 320 or 480, maximum one course)/CSU
54 hours Lecture
This course is a global survey of the world's cultural regions. Basic geographic concepts and ideas are used to study and compare people, resources, landscapes, livelihood and economics, and origins across eight major geographic regions. The interaction of countries and regions, their global roles, and the conflicting pressures of cultural diversity versus globalization are presented. The widening gap between more developed and less developed countries is integrated throughout the course. Cultural and ethnic diversity, as it pertains to the expanding population of the United States, is evaluated throughout the course. This honors section uses intensive instructional methodology designed to challenge motivated students.

Geology GEOL

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

GEOL 302 Physical Geology 4 Units

Formerly: GEOL 1

Prerequisite: None
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
A survey of materials and physical processes occurring in the earth with special emphasis on their physical and chemical backgrounds. For non-majors, as well as for majors in geology, oceanography, engineering, forestry and science education. Recommended for prospective earth science teachers.

GEOL 305 Earth Science 3 Units

Formerly: GEOL 8

Prerequisite: None
Corequisite: GEOL 306.
Advisory: MATH 34, ENGRD 110 and ENGWR 50, or ESLW 310 and ESLR 310, or placement through the assessment process.
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture
This is an introductory science course covering major topics in geology, oceanography, meteorology, astronomy, scientific method and philosophy of science. This course is designed for non-science majors.

GEOL 306 Earth Science Laboratory 1 Unit

Formerly: GEOL 8L

Prerequisite: None
Corequisite: GEOL 305.
Advisory: MATH 34, ENGRD 110 and ENGWR 50, or ESLW 310 and ESLR 310, or placement through the assessment process.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course emphasizes scientific methods and systematic laboratory procedures. Includes weather analysis, rock and mineral identification, study of geologic concepts by means of topographic maps, and exercises in astronomy and oceanography. One field trip is required. Not available for credit to students who have completed GEOL 302.

GEOL 308 Introduction to Geology 3 Units

Formerly: GEOL 10

Prerequisite: None
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after any GEOL course)/CSU
54 hours Lecture
An introduction to the phenomena and basic principles of geology with discussion of the origin and geological evolution of the earth and its life. No credit to students who have completed any geology course.

GEOL 310 Historical Geology 3 Units

Formerly: GEOL 3

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
This course covers the geological history of Earth as shown by the changing pattern of land an sea and by the succession of fauna and flora. Stratigraphy and other techniques for interpreting the sequence of past geological events are studied.

GEOL 311 Historical Geology Laboratory 1 Unit

Formerly: GEOL 4

Prerequisite: None
Corequisite: GEOL 310.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course includes laboratory studies in historical geology and the application of physical geology principles and paleontology to the reconstruction of the history of the Earth. Students will perform exercises in stratigraphy and paleontology as well as interpret geologic maps.

GEOL 345 Geology of California 3 Units

Formerly: GEOL 12

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
A survey of the physical, historical and economic aspects of the geology of California. Recommended for non-majors as well as majors in geology. Of particular value to engineering, education and economics majors.

GEOL 350 Introduction to Mineralogy 4 Units

Formerly: GEOL 6

Prerequisite: None
Acceptable for credit: UC/CSU
72 hours Lecture
The properties, relationships and origins of minerals, crystallography and determinative mineralogy; economic importance of minerals in California and on a world-wide basis.

GEOL 391 Field Studies in Geology 1-3 Units

Formerly: GEOL 24

Prerequisite: None
Acceptable for credit: UC/CSU
72 hours Lecture
Laboratory study of geologic principles, geologic processes and earth materials in the natural setting. Field trips will be scheduled to the desert, mountains, great valley, and coastal regions. This course may be repeated for credit for three units maximum.

GEOL 494 Topics in Geology .5-4 Units

Formerly: GEOL 22

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
This course is designed to enable both science and non-science students to learn about recent developments in geology. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

Gerontology GERON

Associate in Science Degree

Career Certificate

Division of Behavioral and Social Science

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

The Gerontology Program will prepare students to manage the health, psychological, and social needs of the elderly population. The need for specialization in gerontology is clearly shown in population trends and documented in literature citing the lack of adequately prepared geriatric caregivers.

Students who are planning to continue specialization in gerontology by transferring to a four-year college should consult the Requirements for Transfer Institutions section of this catalog. Consultation with an SCC counselor is advised.

Required Program	Units
PSYC 374/ GERON 302/ FCS 332, Aging, OR FCS 324/PSYC 370, Human Development	3
SOC 335/ FCS 330/ GERON 300, Aging	3
PSYC 390, Psychology of Death and Dying	3
PSYC 392, Loss and Grief	2
GERON 330, Interviewing and Counseling the Elderly	3
GERON 334, Reminiscence Therapy	3
GERON 494, Topics in Gerontology	3
GERON 498, Gerontology Work Experience	3
FCS 340, Nutrition	3
Total Units Required	**26**

Suggested Electives
FCS 320; PSYC 300; SOC 300; SOC 301; SOC 341/FCS 326; SOC 310.

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

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

Gerontology (GERON)

GERON 300 Sociology of Aging 3 Units (Same as FCS 330 and SOC 335)

Formerly: GERON 22

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
General Education: AA/AS Area B2
Acceptable for credit: UC (GERON 300 or 302, maximum one course)/CSU
54 hours Lecture
This course examines aged and aging process with emphasis on social factors affecting 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/cultural differences. (Credit awarded for SOC 335 or FCS 330 or GERON 300.)

GERON 302 Psychology of Aging: Adult Development and Aging (Same as FCS 332 and PSYC 374) 3 Units

Formerly: GERON 26

Prerequisite: None
General Education: AA/AS Area E2
Acceptable for credit: UC (GERON 300 or 302, maximum one course)/CSU
54 hours Lecture
This course will explore the description and explanation of the evolution of adult behavior over the life span. It will also include the study of nature and changes of capacities, skills, feelings, emotions, and social behavior with age. (Credit for FCS 332, PSYC 374 or GERON 302, but not for all three.)

GERON 330 Techniques for Communicating with and Validating Older Adults 3 Units

Formerly: GERON 41

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310, or ENGRD 110.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course introduces the basic theory, techniques, and experiences for communication, validation and stimulation with the elderly at different cognitive levels.

GERON 334 Reminiscence Therapy 3 Units

Formerly: GERON 42

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310, or ENGRD 110.
Acceptable for credit: CSU
54 hours Lecture
This course introduces the basic theory and techniques of Reminiscence Therapy and provides experience in planning, facilitating, and evaluating reminiscence groups with the elderly in an institutional setting.

GERON 360 Topics in Gerontology: Ethnic Diversity and Aging .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 100.
Acceptable for credit: CSU
9 hours Lecture
This course is an overview of ethnicity as a factor in the aging process. Emphasis will be placed on how values, beliefs and culture, must be considered in the design and delivery of service.

GERON 364 Medical World of Elderly: Pharmacology .5 unit

Prerequisite: None.
Advisory: Eligibility for ENGWR 100 or ENGRD 110.
Acceptable for credit: CSU
9 hours lecture
This course examines possible causes and effects of alcohol abuse and polypharmacy on the health and overall quality of life in older adults.

GERON 366 Coping with Death and Related Bereavement .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310 or ENGRD 100.
Acceptable for credit: CSU
9 hours Lecture
This course is an exploration of our societal and personal views of death, dying, and bereavement with the focus on ways in which our Western society treats the subject of death, right-to-die issues, and the theoretical stages of death and bereavement.

GERON 372 Alzheimer's Workshop .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 100.
Acceptable for credit: CSU
9 hours Lecture
This course is an overview of current information on all aspects of dementia and care giving issues, focusing on research, legal issues, grief, resources, medication, behavior management and activities.

GERON 376 Aging and Family Dynamics .5 unit

Prerequisite: None.
Advisory: Eligibility for ENGWR 100 and ENGRD 310 or ENGRD 110.
Acceptable for credit: CSU
9 hours lecture
This course is an overview of how the aging process affects individuals, families and relationships. The focus is on changing roles and relationship strategies for negotiating these transitions and helping families resolve aging issues.

GERON 378 Body Mechanics and Safety .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
Acceptable for credit: CSU
9 hours Lecture
This course is an overview of body mechanics emphasizing a problem-solving approach. Focus is on basic methods and techniques of positioning, transfer, and ambulation, as well as personal safety, adaptive exercise and assistive devices.

GERON 380 Nutrition and Aging .5 unit

Prerequisite: None.
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
Acceptable for credit: CSU
9 hours Lecture
This course 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.

GERON 389 Treatment of the Geriatric Patient .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
Acceptable for credit: CSU
9 hours Lecture
This course explores the demographic, socioeconomic and physiologic aspects of aging as they relate to the treatment of the elderly. Other issues will include institutionalized and home care, community resources and health care systems.

GERON 404 Sexuality and Aging .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
Acceptable for credit: CSU
9 hours Lecture
This course 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 411 Legal Issues for the Elderly .5 Unit

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, and ENGRD 110.
Acceptable for credit: CSU
9 hours Lecture
This course is designed to examine current legal issues specific to older adults. It includes assets management and a survey of legal tools.

GERON 494 Topics in Gerontology .5-4 Units

Formerly: GERON 47

Prerequisite: None
Advisory: Eligibility for ENGRD 310 and ENGWR 100.
Acceptable for credit: CSU
54 hours Lecture
This course is 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. Credit/No Credit basis only.

GERON 498 Work Experience in Gerontology 1-4 Units

Formerly: GERON 48

Prerequisite: Concurrent enrollment in GERON 330.
Acceptable for credit: CSU
72 hours Lecture
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. This course provides "hands-on" experience for students to explore their interests and capabilities in assessing and applying therapeutic interventions when working with the elderly. Students will be under the supervision of the instructor and a designated professional in the assigned facility.

Graphic Communication G COM

Associate in Science Degree

Career Certificate

Certificate of Completion

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Graphic Communication, Degree and Career Certificate

Digital Illustration Certificate of Completion

Graphic Design Production, Certificate of Completion

Image Editing, Certificate of Completion

Web Design, Certificate of Completion

Page Layout, Certificate of Completion

Pre-Press, Certificate of Completion

Graphic Communication develops curriculum in conjunction with Northern California industry leaders. Our courses offer students both current technology and theory in electronic prepress, graphic design production, digital illustration, image editing, web design, page layout, and computer animation.

The program consist of three distinct areas:

- Electronic Prepress/Graphic Design
- Web Design
- Computer Animation

Courses within these areas a focused on students acquiring specific skills and technical competencies to promote success in the workplace.

Electronic Prepress/Graphic Design

These courses focus on computer-related skills that are applicable to the print design industry. This area offers industry standard software classes as well as basic design theory. These classes will prepare students for transfer to a four-year college or employment opportunities within the print design industry. Employers that are from this area include newspapers, book and magazine publishers, graphic design studios, prepress departments with in commercial print shops, government agencies, and in-house design studios.

Web Design

Web design courses combine the latest computer technology and graphic design concepts/ theory. The curriculum is under close advisement from industry contacts to offer students skills that are "hireable." Opportunities in this area might include transfer to a four-year college, employment with a Web design team, or self-employment as a Web designer.

Computer Animation

The newest additions to the Graphic Communication program are courses in Computer Animation. These courses are being developed with the help of industry partners who are leaders in computer animation in Northern California. Opportunities include transfer to a four-year college, transfer to private animation schools, employment in animation studios, special effects houses, the gaming industry, and the motion picture industry.

Recommended High School Preparation

Courses in art, keyboarding, computer skills, photography, journalism, and English.

Contact department faculty in the following areas:

Prepress/Computer Software, 916-558-2415

Graphic Design/Web Design, 916-558-2280

Computer Animation, 916-558-2748

Graphic Communication

Associate in Science Degree
Career Certificate

Required Program	**Units**
Select 21 units from the following:	
GCOM 300, Introduction to Printing Processes	3
GCOM 101, Introduction to Macintosh	1.5
GCOM 310, Beginning PageMaker	3
GCOM 311, Advanced PageMaker	3
GCOM 313, Adobe InDesign	3
GCOM 316, Beginning Quark XPress	3
GCOM 317, Advanced Quark XPress	3
GCOM 319, Newspaper Design	3
GCOM 330, Beginning Photoshop	3
GCOM 331, Advanced Photoshop	3
GCOM 340, Beginning Illustrator	3
GCOM 341, Advanced Illustrator	3
GCOM 345, Advanced Graphic Design Production	3
GCOM 360 (same as CISW 351), Graphic for the Web	2
GCOM 284, Special Topic, Image Editing Related	3
GCOM 280, Special Topic, Design Related	3
GCOM 282, Special Topic, Emerging Technologies	3
GCOM 286, Special Topic, Media Related	3
GCOM 288, Special Topic, Page Layout Related	3
GCOM 361, Beginning Creative Web Page Design	3
GCOM 103, Introduction to Adobe Acrobat	1.5
GCOM 363, Advanced Creative Web Design, Macromedia Flash!	3
GCOM 349, Portfolio	1.5
GCOM 400, Introduction to Computer Animation	3
GCOM 402, Beginning 3D Graphics and 3D Animation (Lightwave 3D)	3
GCOM 410, Advanced 3D Animation - Character Animation	3

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

Career Certificate
The Career Certificate may be obtained by completion of 21 units in Graphic Communication courses with grades of "C" or better or equivalent.

Digital Illustration

Certificate of Completion, Level 1

Digital Illustration involves creating artwork (graphics), clip art, logos, and poster art. The Digital Illustration Certificate involves learning industry standard illustration software. The certificate should prepare students for an entry-level position working in a graphic design related field, such as a newspaper, magazine, or sign shop business.

Required Courses	**Units**
GCOM 340, Beginning Adobe Illustrator	3
GCOM 341, Advanced Adobe Illustrator	3
Total Units Required	**6**

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

Graphic Design Production

Certificate of Completion, Level 3

Graphic Design Production involves the setting up and designing of text and graphics for print. The Graphic Design Production Certificate involves learning industry standard software. This certificate should prepare students for an entry-level position working in a graphic design related field, such as a newspaper, magazine, and design studio business.

Required Courses	**Units**
GCOM 310, Beginning PageMaker, OR GCOM 311, Advanced PageMaker, OR GCOM 313, Adobe InDesign, OR GCOM 316, Beginning Quark Xpress, OR GCOM 317, Advanced Quark Xpress	3
GCOM 330, Beginning Photoshop, OR GCOM 331, Advanced Photoshop	3
GCOM 340, Beginning Illustrator, OR GCOM 341, Advanced Illustrator	3
GCOM 345, Advanced Graphic Design Production	3
GCOM 349, Portfolio	1.5
Total Units Required	**13.5**

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

Image Editing

Certificate of Completion, Level 1

Image Editing involves creating artwork (graphics) used in print publications or web sites. The Image Editing certificate involves learning industry standard image editing software. The certificate should prepare students for an entry-level position working in a graphic design, web design, or printing related field, such as a newspaper, magazine, web development, or printing business.

Required Courses	**Units**
GCOM 330, Beginning Photoshop	3
GCOM 331, Advanced Photoshop	3
Total Units Required	**6.0**

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

Certificate of Completion, Level 1 and/or Level 2

Web Design involves operating a web site or creating a web site. The Internet/Web Certificate involves learning industry standard software and basic web page construction and design. It also could include animation and interactivity on web sites with the GCOM 363 Option. This certificate should prepare students for an entry-level position working in a web design, Internet, or graphic design-related field.

Required Courses	**Units**
GCOM 360, Graphics for the Web (same as CISW 351)	3
GCOM 361, Creative Web Page Design	3
GCOM 103, Introduction to Adobe Acrobat	1.5
GCOM 363, Advanced Creative Web Page Design (Macromedia Flash!)	3
Total Units Required	**10.5**

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

Page Layout

Certificate of Completion, Level 2

Page Layout (Desktop Publishing) involves the page design of text and graphics. The Page Layout Certificate involves learning industry standard image editing software. The certificate should prepare students for an entry-level position working in a graphic design, web design, or printing related field, such as a newspaper, magazine, or printshop business.

Required Courses	**Units**
Choose 2:	
GCOM 310, Beginning Page Maker, OR GCOM 316, Beginning Quark Xpress, OR GCOM 313, Adobe InDesign	6
GCOM 311, Advanced Page Maker, OR GCOM 317, Advanced Quark Xpress, OR GCOM 319, Newspaper Design	3
Total Units Required	**9**

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

Pre-Press

Certificate of Completion, Level 2

Prepress work involves using page layouts, graphics, and illustration software to create print publications and to pre-flight document. The Pre-Press Certificate involves learning industry standard software for the printing and graphics industries. The certificate should prepare students for an entry level position in printing or graphic design related fields, such as prepress departments in print shops, newspapers, magazines, and in-house graphics departments.

Required Courses	**Units**
GCOM 310, Beginning PageMaker, OR GCOM 316, Beginning Quark Xpress, OR GCOM 313, Adobe InDesign	3
GCOM 330, Beginning Photoshop	3
GCOM 340, Beginning Illustrator	3
Total Units Required	**9**

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

Graphic Communication (GCOM)

GCOM 101 Introduction to the Macintosh **1.5 Units**

Formerly: GCOM 51

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
This course is designed to give students a basic understanding of the Macintosh platform. Instruction will include: setting up the Macintosh hardware-from box to operation; adding peripherals and setting proper SCSI numbers; installing the most current system software; general operating techniques which include system software tips and proper startup and shutdown procedures; and troubleshooting procedures.

GCOM 103 Introduction to Adobe Acrobat **1.5 Units**

Formerly: GCOM 88

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
Students will learn to use the Adobe Acrobat collection to create, modify, and enhance PDF documents in Portable Document Format (PDF). Additionally, students will learn to create a PDF document from either an electronic or paper file. A variety of tools and features let you add interactive elements to your documents from custom hyperlinks and media clips to form fields and buttons. Students will also learn to use Acrobat to create a searchable electronic library of files. This course may be taken three times for credit.

GCOM 104 Real World Scanning **1.5 Units**

Formerly: GCOM 68

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
Real World Scanning is designed to help individual students make better decisions when purchasing a scanner as well as helping those who own a scanner to be able to create better scans. Areas covered will include scanning color photos, black and white photos, line art, and the scanning of text through OCR (optical character recognition) software. Whether you are a first-time scanner user or a seasoned veteran, this course will help you produce quality scans for use on your inkjet printer or for sending to a commercial printer.

GCOM 280 Experimental Offering in Graphic Communication, Design Related **.5-4 Units**

Formerly: GCOM 85D

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs. This course may be taken three times for credit as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 282 Experimental Offering in Graphic Communication, Emerging Technologies **.5-4 Units**

Formerly: GCOM 85E

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs in the area of emerging technologies related to graphic communications (entirely new computer software reaching beyond the current trend of graphic software). This course may be taken three times for credit as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 284 Experimental Offering in Graphic Communication, Image Editing Related **.5-4 Units**

Formerly: GCOM 85I

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs in the area of image editing. This course may be taken three times for credit as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 286 Experimental Offering in Graphic Communication, Multi-Media Related **.5-4 Units**

Formerly: GCOM 85M

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs. This course may be taken three times as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 288 Experimental Offering in Graphic Communication, Page Layout Related **.5-4 Units**

Formerly: GCOM 85P

Prerequisite: None
54 hours Lecture; 162 hours Laboratory
A specialized course developed in cooperation with industry to address new and emerging technology and occupational training needs. This course may be taken three times as software versions change. Students will receive .5 unit for each 9 hours of lecture or 27 hours of lab work completed.

GCOM 294 Topics in Graphic Communication .5-4 Units

Formerly: GCOM 85

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

GCOM 300 Introduction to Printing Processes 3 Units

Formerly: GCOM 50

Prerequisite: GCOM 310 or 313 or 316 or 340 or equivalent with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers computer and hands-on experience in pre-press and pre-flight preparation, as well as printing a simple project. Through lecture, homework assignments, and tours, students learn to make appropriate decisions with software, output and estimating costs for the variety of printing opportunities available today. The first segment of this course will cover pre-press through using tools in graphic design software. The second segment of the class will involve actual printing. Projects may include preparation and printing of business cards, letterhead, envelopes, and notepads.

GCOM 310 Beginning PageMaker 3 Units

Formerly: GCOM 52

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to computerized layout and design, referred to as Desktop Publishing. This hands-on approach will provide students with (1) a fundamental working knowledge of computer hardware, and (2) a fundamental working knowledge of software applications using page layout and word processing programs. Instruction will include word processing and page layout procedures to produce brochures, catalogs, newsletters, and business cards. The course may be repeated once for credit if the version of software being taught has changed.

GCOM 311 Advanced PageMaker 3 Units

Formerly: GCOM 53

Prerequisite: None
Advisory: GCOM 310 or one year of PageMaker/Macintosh experiences recommended.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course centers on Advanced PageMaker techniques for the Macintosh and the PC. Emphasis will be on style sheets, tabbing, long document setup and graphics. Additional instruction includes System Software information and maintenance techniques that are designed to keep your Mac running smoothly. Although taught on the Mac platform, PC based students will find this course beneficial also. This course may be repeated once for credit if the version of software being taught has changed.

GCOM 313 Adobe InDesign 3 Units

Formerly: GCOM 54

Prerequisite: Completion of GCOM 310 or one year of trade experience in PageMaker.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course focuses on all aspects of Adobe InDesign, a new professional publishing software which redefines page layout design. Instructional topics address how to use the new tools and features of InDesign as well as how to embed fonts, import Quark XPress documents for file conversion and cross platform issues. Color management systems and preparing images for the Web are included in this course.

GCOM 316 Beginning Quark XPress 3 Units

Formerly: GCOM 57

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an introduction to page layout and electronic publishing utilizing a graphic design industry standard software, Quark XPress. Using lectures, demonstrations, and hands-on methods, student will discover how to use the software in creating brochures, newsletters, catalogs, and a variety of other publishing materials. This course may be repeated once for credit if the version of software being taught has changed.

GCOM 317 Advanced Quark XPress 3 Units

Formerly: GCOM 58

Prerequisite: GCOM 316 (Beginning Quark Xpress) or equivalent.
Advisory: GCOM 330 (Beginning Adobe Photoshop) or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an indepth course about page layout, graphic production and electronic publishing, utilizing the graphic design industry standard software, Quark XPress. Through lecture, demonstration, and hands-on methods as well as class/instructor critiques, students will understand the graphic design process for page layout design from creative concept to printed page. Topics include multipage publications, packaging layout, advertising design, typography and working with a service bureau. This course may be repeated once for credit if the version of software being taught has changed.

GCOM 319 Newspaper Design 3 Units

Formerly: GCOM 59

Prerequisite: GCOM 310 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course examines newspaper design. Students are responsible for the design and production of the award winning Sacramento City College school newspaper, using the fundamental design concepts and theory involving grid, page layout, typefaces, and visual communication. This course offers an opportunity to build a portfolio and to gain experience while working on a real-world project. This course may be taken three times for credit.

GCOM 330 Beginning Photoshop 3 Units

Formerly: GCOM 66

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
Discover the ultimate power of creating, manipulating, and enhancing images by using the professional graphic design and Web design imaging software of choice, Adobe Photoshop. This beginner's course covers how to effectively use this software for the graphic design industry, as well as how to plan and carry out a digital imaging project. This course may be taken twice for credit if the version of software being taught has changed.

GCOM 331 Advanced Photoshop 3 Units

Formerly: GCOM 67

Prerequisite: None
Advisory: GCOM 330 or one year of Photoshop/Macintosh experience recommended.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course centers on Advanced Photoshop techniques using the latest version of Photoshop. In addition to learning advanced technique capabilities of Photoshop's many features, users will learn how to convert their files for printing purposes. Students will also learn how to work with service bureaus and commercial printers to produce quality out-put. This course may be repeated once for credit if the version of software being taught has changed.

GCOM 340 Beginning Adobe Illustrator 3 Units

Formerly: GCOM 75

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
When illustrating digitally for print or Web media, one of the skills artists and designers need to have is the ability to draw with vector digital tools. This beginner's course provides professional tips and techniques while introducing graphic design and Web design students to the industry's leading vector-drawing program, Adobe Illustrator. Learn how digital illustrations are produced with a variety of lines and fills, gradients and blends, and special effects. This course gives students the foundation to create original graphics and illustrations digitally. The course may be repeated once for credit if the version of software being taught has changed.

GCOM 341 Advanced Adobe Illustrator 3 Units

Formerly: GCOM 76

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
Adobe Illustrator is a "draw" program that enters into the area of Graphic Design. This course focuses on using graphic design in conjunction with the software to develop multi-paged, complex projects, using the software for World Wide Web design, and understanding the offset printing process.

GCOM 345 Advanced Graphic Design Production 3 Units

Formerly: GCOM 79

Prerequisite: GCOM 310 or 316 and 330 or 340.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an in-depth course about page layout, graphic production and electronic publishing, utilizing different industry standard software applications through lecture, demonstration, and hands-on methods. Students will understand the graphic design process from concept to printed page. Topics include logos, working with a service bureau, file formats, importing from other applications, multi-page publications, packaging, and combining software packages.

GCOM 349 Portfolio 1.5 Units

Formerly: GCOM 90

Prerequisite: None
Advisory: Students should have at least four pieces of artwork or design work from other classes to use in this class.
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This is a course geared toward preparing a portfolio of work in the graphic communication related industries. Through lecture, demonstration, and hands-on methods, students will understand the aesthetics, organization and physical preparation in creating a portfolio of work. Topics include different portfolio mediums, mounting and presentation, digital portfolios and getting your work noticed.

GCOM 360 Graphics for the Web (Same as CISW 351) 3 Units

Formerly: GCOM 81W

Prerequisite: GCOM 330 with a grade of "C" or better.
Advisory: CISC 306 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course takes an in-depth look at designing graphics for the Web. Using industry standard graphic software, students will create original graphics as well as manipulate found imagery. Through lecture, demonstration, hands-on methods, and class/instructor critiques, students will understand the process for designing graphics for Web use. Topics include developing graphic elements for a Web site using a visual theme, creating buttons and intuitive navigational elements, making background textures and images, understanding Web file formats, scanning, presenting to a client, and simple animation that enhances a Web site. This course may be taken twice for credit on a different platform.

GCOM 361 Creative Web Page Design 3 Units

Formerly: GCOM 87

Prerequisite: GCOM 330 or 340 or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This beginner's course uses a visual editor for Web page design. Using graphic design concepts and techniques, students will create a Web site with successfully designed navigation and content, which is catered to a specific audience.

GCOM 363 Advanced Creative Web Page Design (Macromedia Flash!) 3 Units

Formerly: GCOM 89

Prerequisite: GCOM 361 or the equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course covers the creation of vector-based graphics, animation and interactivity within the Web environment. Emphasis will be placed on applying design principles to the elements of motion and interactivity. The basic operating principles of Macromedia Flash will be applied in order to create Web sites with animation, interactive buttons and sound. Issues of creative process for Web design, working with a client, bandwidth restrictions, and optimal delivery will be covered. This course may be repeated once for credit if the version of software being taught has changed.

GCOM 400 Introduction to Computer Animation 3 Units

Formerly: GCOM 91

Prerequisite: None
Advisory: ART 300 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course introduces students to the creation of animation on the computer. The principles of animation are emphasized through lecture and the use of 2D and 3D software tools. Students learn historical perspective, the animation production process and industry trends. Students work on hands-on projects creating 2D and 3D animations. This course may be taken two times for credit on a different software version.

GCOM 402 Beginning 3D Graphics and 3D Animation (Lightwave3D) 3 Units

Formerly: GCOM 93A

Prerequisite: None.
Advisory: GCOM 400 with a grade of "C" or better; ART 300 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course introduces the student to 3D graphics and 3D animation using Lightwave 3D software. Through exercises and work on hands-on projects, students explore concepts and principles in 3D graphics and animation using the Lightwave 3D software interface. Topics include: 3D modeling and 3D animation, rendering, shading, lighting, key-frames, storyboarding, layout, and editing of finished animation clips. This course may be taken two times for credit on a different software version.

GCOM 410 Advanced 3D Animation - Character Animation 3 Units

Formerly: GCOM 92A

Prerequisite: GCOM 402 with a grade of "C" or better.
Advisory: GCOM 400 with a grade of "C" or better, GCOM 340 with a grade of "C" or better, ART 300 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course entails a hands-on study of the challenging subject of 3D character animation. Areas of focus include 3D character design, modeling, rigging and character animation using Lightwave 3D software, as well as the synchronization of voice, sound effects and music. Students will explore advanced techniques in designing 3D characters and animating them. The animation process and principles of animation will be reinforced throughout this course. This course may be taken two times for credit on a different software version.

GCOM 498 Work Experience in Graphic Communication 1-4 Units

Formerly: GCOM 98

Prerequisite: None
18 hours Lecture
See work Experience.

Health Education HEED

Division of Physical Education, Health, and Athletics

Gary Torgeson, Dean/Athletic Director

Hughes Stadium , Sections 1 and 3

916-558-2425

HEED 300 Health Science 3 Units

Formerly: HEED 1

Prerequisite: None
Advisory: Advisory: ENGWR 100 and ENGRD 310.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will include, but not be limited to the study of physical and psychological health, creating healthy and caring relationships, avoiding and overcoming harmful habits, building healthy lifestyles, preventing and fighting disease, and facing life's challenges. Specific topics may include the study of physical, mental and emotional health, managing stress, violence, sexuality, birth control, pregnancy, childbirth, sexually transmitted diseases including AIDS, drug, alcohol, and tobacco use and abuse, nutrition and fitness, prevention and fighting communicable disease, aging, environmental health and consumerism.

HEED 314 Community First Aid and Safety 2 Units

Formerly: HEED 12

Prerequisite: None
Advisory: ENGWR 100, ENGRD 310, and ESLW 320.
Acceptable for credit: UC (HEED 314 or 322, maximum one course)/CSU
36 hours Lecture
This course is the official American Red Cross Standard First Aid and Community Cardiopulmonary Resuscitation (CPR) course. American Red Cross Standard First Aid and Community CPR certificates will be issued upon completion of this course with a grade of "C" or better.

HEED 321 CPR: BLS for the Professional Rescuer 1 Unit

Prerequisite: None
Acceptable for credit: CSU
9 hours Lecture; 27 hours Laboratory
This course is designed to meet the special needs of the people who are expected to respond in emergency situations. It includes adult, child, and infant CPR as well as performing two-rescuer CPR and using rescue-breathing devices. It teaches the skills a professional rescuer needs to act as a crucial link in the emergency medical services (EMS) system. Students will need to purchase a pocket mask rescue-breathing device. Satisfactory completion of this course results in American Red Cross certificate in CPR for the Professional Rescuer. Students must pay a $3.00 fee to receive the American Red Cross certificate.

HEED 322 Advanced First Aid and Emergency Care 3 Units

Formerly: HEED 20

Prerequisite: None
Acceptable for credit: UC (HEED 314 or 322, maximum one course)/CSU
54 hours Lecture
The official American Red Cross Advanced First Aid and Emergency Care course, along with CPR. The American Red Cross Advanced First Aid and CPR certificates will be issued upon completion of the course with grade of "C" or better.

HEED 330 Health and Safety in Child Care Settings (Same as ECE 410) 1 Unit

Formerly: HEED 13

Prerequisite: None
Advisory: Eligibility for ENGRW 310 and ENGRD 110.
Acceptable for credit: CSU
18 hours Lecture
This course will discuss health and safety issues in child care centers and family day care homes. Topics include pediatric cardiopulmonary resuscitation, pediatric first aid, and preventative health practices such as control of infectious diseases, injury prevention, nutrition, sanitation, emergency preparedness and evacuation. This course meets requirements of mandated training for child care providers.

HEED 340 Contemporary Problems of Student Athletes 3 Units

Formerly: HEED 25

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This class will address the concerns/issues and responsibilities of the student athlete. The support services at Sacramento City College will be covered. These services include assessment, the media center, library, health office, counseling, financial aid. Information on the following topics will be given: nutrition and weight control, steroids, fitness, prevention and treatment of injuries, chemical dependency, the addictive personality, OTC drugs, alcohol use and abuse, amphetamines, depressants, tobacco, hallucinogenics, marijuana, and drug testing. The care and prevention of sexually transmitted diseases, as related to general health issues, will be discussed. Recruitment and scholarship information will be given regarding the Commission on Athletics (COA) and the National Collegiate Athletic Association (NCAA).

History HIST

Associate in Arts Degree

Division of Behavioral and Social Science
Dr. Kari Forbes-Boyte, Dean
Rodda North 226
916-558-2401

The history major fosters an understanding of ourselves and our world through the study of the past-both remote and recent. The program develops critical thinking and a broad background in issues and ideas from our past. The major thus prepares students for transfer to B.A. programs in history. It also offers all students fundamental preparation for careers in business, government, teaching, and a number of professional fields (for example, paralegal or law careers).

Required Program **Units**

Introduction to Early United States History 3
One of the following courses:
HIST 310, History of the United States, OR
HIST 320, History of the United States, African- American Emphasis, OR
HIST 483, History of the United States–Honors.

Introduction to Recent United States History 3
One of the following courses:
HIST 311, History of the United States, OR
HIST 321, History of the United States: African-American Emphasis, OR
HIST 484, History of the United States–Honors.

Western Civilizations or World History 6
Two courses from either:
HIST 300, History of Western Civilization, OR HIST 480, History of Western Civilization–Honors, AND
HIST 302, History of Western Civilization, OR
HIST 307, History of World Civilizations to 1500, AND
HIST 308, History of World Civilizations, 1500 to the Present

Breadth Area 3
One course in: African, Asian, History of the Americas, or Middle Eastern History
HIST 360, History of African Civilization
HIST 364, Asian Civilization
HIST 365, Asian Civilization
HIST 370, History of the Americas
HIST 371, History of the Americas
HIST 373, History of Mexico
HIST 380, History of the Middle East

Electives 3
One additional transferable history course (excluding HIST 317, Survey of the United States History).

Total Units Required **18**

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

Transfer Program
Transfer students should consult the Requirements of Transfer Institutions 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

Formerly: HIST 4

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC (HIST 300 or 480, maximum one course)/CSU
54 hours Lecture
This is a study of Western Civilization from pre-historic times to the Renaissance. The focus of the course will be on the history of Europe, including a general account of those political, economic, and social institutions as well as the cultural and intellectual forces that help explain our present day civilization. The course includes the general study of the nature of history, prehistorical culture, the Ancient Near East, Greece, Rome, the Middle Ages and the Renaissance.

HIST 302 History of Western Civilization 3 Units

Formerly: HIST 5

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of Western Civilization concentrating on the history of Europe. A general account of political, economic, and social institutions as well as the cultural and intellectual forces that help explain our present day civilization will be covered from High Renaissance to the present.

HIST 305 Women in Western Civilization 3 Units

Formerly: HIST 6

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys women's contributions to the major ideas, institutions, and events of Western Civilization. Diversified roles of women are examined from antiquity to the present with emphasis on the interaction of the sexes. The effects on the society of the patriarchal structure of the family and consequently the pervasive impact on all institutions of western culture are closely examined.

HIST 307 History of World Civilizations to 1500 3 Units

Formerly: HIST 11

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys world history to 1500 with an emphasis on the dynamic interaction of cultures and peoples. The course will emphasize the role of social, political, economic, cultural and intellectual forces as they shape the major world civilizations. It will also focus on the legacy and contributions of these civilizations to our present cultures.

HIST 308 History of World Civilizations, 1500 to Present 3 Units

Formerly: HIST 12

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of world history from 1500 to the present with an emphasis on the dynamic interaction of cultures and peoples. The focus is on the role played by social, political, economic, cultural and intellectual forces in shaping the major world civilizations, the legacy of these civilizations, and the on-going tension between tradition and modernity.

HIST 309 World History in the Twentieth Century 3 Units

Formerly: HIST 26

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the major historical developments of the 20th Century world: global wars and the emergence of the Third World; nationalist and revolutionary movements; capitalist and communist systems; the legacies of western dominance; ethnic conflict; and the struggle for economic development.

HIST 310 History of the United States 3 Units
Formerly: HIST 17

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 310 or 320 or 483, maximum one course; HIST 310, 311, 317, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course covers the development of American Institutions and society through Reconstruction and partially fulfills American Institutions requirements. The course emphasizes the role played by political, economic, social, cultural and intellectual forces on the culture and development of multiple ethnic groups in a comparative format. The course is not recommended for students who have completed HIST 317.

HIST 311 History of the United States 3 Units
Formerly: HIST 18

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 311 or 321 or 484, maximum one course; HIST 310, 311, 317, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course covers the development of American Institutions and society from Reconstruction to the present and partially fulfills American Institutions requirements. The course emphasizes the role played by political, economic, social, cultural and intellectual forces on the culture and development of multiple ethnic groups in a comparative format. The course is not recommended for students who have completed HIST 317.

HIST 314 Recent United States History 3 Units
Formerly: HIST 21

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Area B1
Acceptable for credit: UC (HIST 314 or 385, maximum one course)/CSU
54 hours Lecture
This course covers United States history from 1945 to the present, offering an in-depth study of post-World War II United States history. Emphasis will be placed on domestic policy, foreign policy, and social and political movements.

HIST 317 Survey of the United States History 3 Units
Formerly: HIST 16

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Area B1
Acceptable for credit: UC (HIST 310, 311, 317, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
The scope of American history, 1789 to the present, is covered in this course which emphasizes the major themes of our development. HIST 317 is specially designed to meet the needs of transfer students other than social science majors. No credit if preceded by HIST 310, 311, 320, 321.

HIST 320 History of the United States: African-American Emphasis 3 Units
Formerly: HIST 14

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 310 or 320 or 483, maximum one course; HIST 310, 311, 317, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
Covering the U.S. Constitution and founding of American governmental institutions, this course focuses on United States history from the establishment of the first New World colonies to the end of the Civil War. This course will pay particular attention to the ways in which black people have influenced the formation and development of this nation. This course will also examine the ways in which racial issues have shaped American society, culture, and politics. There will be no credit if preceded by HIST 310 or 317.

HIST 321 History of the United States: African-American Emphasis 3 Units
Formerly: HIST 15

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 311 or 321 or 484, maximum one course; HIST 310, 311, 317, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course focuses on United States history from 1865 to Present, including coverage of state and local government, with an emphasis on the role of African Americans. This course will pay close attention to the ways in which black people have shaped American society, culture, and politics. No credit if preceded by HIST 311 or 317.

HIST 344 Survey of California History: A Multicultural Perspective 3 Units
Formerly: HIST 28

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of the history of California with an emphasis on the state's multicultural society beginning with Native California cultures. The course considers the impact of Mexican, Asian, and African Americans as well as other groups within the context of economic, political, and cultural developments.

HIST 360 History of African Civilizations 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introductory survey of African history from prehistory to the present. Major topics will include the rise of ancient and medieval societies in Africa, the Atlantic slave trade, European colonialism, and the emergence of nation states in modern Africa. The course examines the development of social, political, and economic institutions in Africa, the interactions of peoples and cultures, and the impact of the outside influences of Islam and the West on African history.

HIST 364 Asian Civilization 3 Units

Formerly: HIST 19

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a general survey of Asian civilization with an emphasis on East Asia, beginning with the dawn of recorded history through 1600.

HIST 365 Asian Civilization 3 Units

Formerly: HIST 20

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an examination of the political, social, economic and cultural transformation of West Asia, East Asia, India and Southeast Asia since 1600. Emphasis will be placed on how these cultures responded to meet the challenges of western civilization.

HIST 370 History of the Americas 3 Units

Formerly: HIST 8

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a general historical survey of the Americas, North and South, from European discovery through the Wars of Independence.

HIST 371 History of the Americas 3 Units

Formerly: HIST 9

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course offers a general historical survey of the Americas, North and South, from national independence to the present day. Emphasis will be on modern day Latin American-United States relations.

HIST 373 History of Mexico 3 Units

Formerly: HIST 10

Prerequisite: None
Advisory: ENGWR 100 or ESLW 320 and ESLR 320.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
As a general history 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 the reconstruction and Contemporary Mexico.

HIST 380 History of the Middle East 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 Areas B2, C, F
Acceptable for credit: CSU
54 hours Lecture
This course surveys the history of the Middle East (Southwest Asia) and North Africa with emphasis on the period from the 6th century CE (AD) to the present. The course focuses on the major social, economic, political and cultural transformations of the region, while taking into account both regional and global contexts of interaction and change in a comparative format. This course will provide students with a historical understanding of the impact of European colonialism, the discovery of petroleum and its consequences, the Palestinian-Israeli conflict, and the role played by the United States in the region.

HIST 400 Critical Thinking in History 3 Units

Formerly: HIST 32

Prerequisite: Successful completion of ENGWR 300 with a grade of "C" or better.
Advisory: Successful completion of at least one college history course.
Acceptable for credit: UC/CSU
54 hours Lecture
Students will apply critical thinking skills to historical problems and contemporary issues. Assigned writing projects will develop critical thinking skills and a working knowledge of the problems and opportunities facing the discipline of history in the world of postmodernism and the World Wide Web. Students will be required to successfully complete writing projects totaling at least 8,500 words, including an extended research project.

HIST 483 History of the United States - Honors 3 Units

Formerly: HIST 17H

Prerequisite: Admission to the Honors Program and eligibility for ENGWR 300.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 310 or 320 or 483, maximum one course; HIST 310, 311, 317, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
This course covers the development of American Institutions and society through Reconstruction and partially fulfills American Institutions requirements. The course emphasizes the role played by political, economic, social, cultural and intellectual forces on the culture and development of multiple ethnic groups in a comparative format. The class is conducted in a seminar format and requires that the student engage in the reading of at least four other major books besides the required text. This honors section uses an intensive instructional methodology and is designed to challenge motivated students. The course is not recommended for students who have completed HIST 317.

HIST 484 History of the United States - Honors 3 Units

Formerly: HIST 18H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Areas B1, F
Acceptable for credit: UC (HIST 311 or 321 or 484, maximum one course; HIST 310, 311, 317, 320, 321, 483, or 484, maximum two courses)/CSU
54 hours Lecture
The course will focus on the development of American institutions from 1877 to the present. It is not recommended for students who have completed HIST 317. This honors section uses an intensive instructional methodology designed to challenge motivated students.

HIST 485 Recent U.S. History - Honors 3 Units

Formerly: HIST 21H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area B1
Acceptable for credit: UC (HIST 314 or 385, maximum one course)/CSU
54 hours Lecture
The course covers United States history from 1945 to the present, offering an in-depth study of post World War II U.S. History. Emphasis will be placed on domestic policy, foreign policy, and social and political movements. This honors section uses an intensive instructional methodology designed to challenge motivated students.

HIST 494 Topics in History (Same as POLS 494) .5-4 Units

Formerly: HIST 47

Prerequisite: None
General Education: AA/AS Area B2
Acceptable for credit: CSU
54 hours lecture
Content will differ each time course is offered. Objective is to focus content on issues of national and international significance at the time of offering course. (Credit for HIST 494 or POLS 494, but not both.)

Honors Program

The Honors Program provides an enriched and unique educational experience with small classes in a seminar format. All classes are transferable and meet the general education/breadth requirements. Honors students have easy access to their instructors and are expected to utilize critical thinking skills throughout their course work. Eligibility: 3.0 GPA, eligibility for ENGWR 300, or upon application and letters of recommendation. Applications are available from the Associate Vice President, Instructional Services, Rodda North 257. Students completing 12 units of Honors courses with at "B" average are designated "Honors Scholars" at graduation and on their transcript.

Honors courses may be found in these subject areas:

Anthropology

Chemistry

Economics

English

Family and Consumer Science

Geography

History

Humanities

Music

Philosophy

Physical Science

Political Science

Psychology

Sociology

Statistics

Human Career Development HCD

Division of Student Services

Lawrence Dun, Dean

Rodda North 111

916-558-2289

HCD 80 Diagnostic/ Prescriptive Educational Assessment 1 Unit

Formerly: HCD 201

Prerequisite: Intake Interview.
18 hours Lecture
This course is designed for students with normal or above intelligence who have a suspected learning disability. One-to-one assessment with a learning disabilities specialist will help evaluate learning strengths, areas of concern and learning styles with a goal toward establishing appropriate educational objectives and improved academic performance. Initial and follow-up group instruction strengthens the students understanding of test results and applications. The class may be repeated for credit as indicated in the Student's Individual Educational Plan.

HCD 83 Diagnostic Learning in English 2 Units

Formerly: HCD 265

Prerequisite: None
18 hours Lecture; 54 hours Laboratory
This is an intensive individualized course offering learning strategies and instructional intervention for students who have difficulty learning English concepts despite traditional methods of instruction. This course is designed and monitored by the Learning dis(Abilities) Program instructor to develop the perceptual skills needed to improve reading and spelling. There is no limitation on the number of times this course may be repeated although it may be taken only once per semester.

HCD 85 Diagnostic Learning in Mathematics 2 Units

Formerly: HCD 202

Prerequisite: None.
18 hours Lecture; 54 hours Laboratory
This course is designed for students with disabilities who have difficulty learning mathematics through traditional modes of instruction. The emphasis is on assisting students with learning disabilities to prepare for college-level mathematics, but the course is open to all students who desire assistance. It offers individualized, self-paced instruction based upon students' current skills and educational goals. This course may be taken four times for credit.

HCD 116 Orientation to College .5-1 Unit

Formerly: HCD 52

Prerequisite: None
18 hours Lecture; 6 hours Laboratory
This course is designed to introduce the student to college programs and services and individual goal setting. Topics covered include skill and interest assessment, educational alternatives, college requirements, and procedures and institutional resources. This course is graded on a credit/no credit basis. A field trip may be required.

HCD 138 MESA/CCCP Orientation 1 Unit

Formerly: HCD 3

Prerequisite: None
18 hours Lecture; 6 hours Laboratory
This course is designed to assist MESA students to obtain the knowledge and skills necessary to reach their educational objectives in engineering, mathematics, and science related fields. Topics to be covered include: decision making on careers, education and personal enrichment, study skills and habits, time management, academic preparation, career ladders, building of self-confidence, educational and career strategies, compatibility with success in college. Field trips may be required.

HCD 300 Independent and Group Studies .5-4 Units

Formerly: HCD 1

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture; 9 hours Laboratory
Independent or group activity in an area of human services and/or personal development not available through existing courses. Such an activity shall be defined by regularly scheduled group experiences or through a contractual arrangement between the student and a supervising instructor of choice. 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. A maximum of 9 units will be allowed toward graduation.

HCD 310 College Success 3 Units

Formerly: HCD 2

Prerequisite: None
Advisory: Eligibility for ENGRD 110 and ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to assist students in obtaining the skills and knowledge necessary to reach their educational objectives. Topics to be covered include: motivation and discipline, memory development, time management, communication skills, career planning, study skills, note taking, critical thinking skills and personal issues that face many college students. Campus resources, research skills and information competency will also be covered. It is highly recommended for new and continuing students. The course may be offered for specific populations.

HCD 312 Guidance for U.S. Newcomers 3 Units

Formerly: HCD 55

Prerequisite: None
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture; 6 hours Laboratory
This course will introduce newcomers to cross cultural vocational issues and college expectations. Teaching materials are designed to transmit concepts on cultural adjustment, occupational information, work in America and expectations of work and education. Field trips may be required.

HCD 318 Transfer: Making It Happen 2 Units

Prerequisite: None.
General Education: AA/AS Area E
Acceptable for credit: CSU
36 hours Lecture
This course will introduce students to strategies for successful transfer and eventual graduation from a four-year college or university. College research, general breadth/major requirements, self-analysis and differentiation between college selection and majors will be included.

HCD 320 Skills for Online Student Success 1 Unit

Formerly: HCD 15

Prerequisite: None
Advisory: CISC 300.
Acceptable for credit: CSU
18 hours Lecture
This course is designed to familiarize students with the skills required to succeed in an online course. Students will explore how to use various Internet tools to effectively learn in an online environment. Topics include online course equipment needs; using a word processor to support class assignments; sending e-mail attachments; effective use of discussion groups, e-mail, and synchronous chat sessions; researching on the Internet; evaluating Internet sources; working collaboratively online. This course is offered as Credit/No Credit.

HCD 330 Life and Career Planning 1 Unit

Formerly: HCD 12

Prerequisite: None
Advisory: ENGWR 50 or ESLW 310 or ESLR 310.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
18 hours Lecture
This course is a holistic approach to life and career planning based on extensive measurement of interests, aptitudes, skills, values, personality, and life and personal circumstances. Personal and career goals will be formulated using career research and decision-making strategies.

HCD 344 Managing Your Internship .5 Unit

Formerly: HCD 9

Prerequisite: None
Corequisite: WEXP 298 and 498.
Acceptable for credit: CSU
9 hours Lecture
This course is designed to provide students with effective internship development skills that will assist them in obtaining and keeping an internship in the student's major area. Course content will include understanding the application of education to the workforce, the responsibilities of an internship, construction of an internship, evaluating an internship site, marketing skills, and maximizing the internship experience.

HCD 360 Academic Skills 1 Unit

Formerly: HCD 10

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This modularized course is designed for students who want to improve their academic skills. Students will have an opportunity to access 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. This course will be graded credit/no credit.

Human Services H SER

Division of Learning Resources

Yvonne Maller, Interim 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 .5-4 Units Skills Assistance

Formerly: HSER 200

Prerequisite: None
27 hours Laboratory
Individualized instruction designed to help the student acquire or improve basic reading, writing and/or arithmetic skills. Course offering varies depending on individual student needs and abilities. Students may enroll in this open entry/open exit course up to the 12th week of the semester. This course is intended as a supplement to other courses and not as a substitute for any basic skills courses. Students earn .5 unit of credit for each 27 hours of work. This course may be repeated to a maximum of four (4) units. This course is graded credit/no-credit.

HSER 370 Introduction to Individual Peer Tutoring 1 Unit

Formerly: HSER 43A

Prerequisite: None
Advisory: Completion of the course or courses the student wishes to tutor with a grade of "B" or better.
Acceptable for credit: CSU
18 hours Lecture
This independent study course is designed to train students to become peer tutors. It introduces students to the role of a peer tutor and to the methods of effective tutoring.

HSER 371 Tutor Training Practicum 1 Unit

Formerly: HSER 43B

Prerequisite: Completion with a grade of "B" or better and/or concurrent enrollment in HSER 370 or 373.
Acceptable for credit: CSU
54 hours Laboratory
This course provides students practice in individual and small group tutoring under an instructor's supervision. Students will utilize the tutoring skills they acquired in Human Services 370 or 373 as they work in the tutoring labs on campus.

HSER 373 Introduction to Group Peer Tutoring 1 Unit

Formerly: HSER 38

Prerequisite: None
Advisory: Completion of the course or courses the student wishes to tutor with a grade of "B" or better.
Acceptable for credit: CSU
18 hours Lecture
This course is designed to familiarize the student with the role of the tutor and the methods of effective group tutoring. This course emphasizes collaborative, interactive approaches to learning in a group setting. This course is offered in coordination with the Beacon Peer-Assisted Learning Program.

HSER 375 Tutoring Elementary Students in Reading 3 Units

Formerly: HSER 45

Prerequisite: None
General Education: AA/AS Area E2.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course offers students an opportunity to learn and practice basic methods of tutoring elementary children to read. Students will meet on campus for the first part of the semester to be trained, and then will be assigned to a nearby elementary school where they will have in-depth practice tutoring elementary children who are reading below grade level. This course may be taken twice for credit. Prior to beginning work in the schools, students may be required to be fingerprinted and pass a TB test. This course may be offered in conjunction with a non-profit organization such as SMART Kids.

HSER 498 Work Experience in Human Services 1-4 Units

Formerly: HSER 48

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
18 hours lecture and 75 hours of related paid work experience for one unit of credit. Additional hours may be earned at the rate of 75 hours for paid work and 60 hours of volunteer work per unit up to a maximum of four (4) units per semester. Techniques of helping people through student presentation of case reports and speakers from a variety of agencies. See Work Experience.

HSER 1000 Supervised Tutoring 0 Units

Formerly: HSER 300

Prerequisite: None
Corequisite: Student must be enrolled in a college credit course and be referred by an instructor or counselor.
100 hours Laboratory
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

A major in General Humanities may be obtained by completing a combination of 18 units from courses in ARTH 300, 302, 304, 306, 308, 310, 312, 324, 328, 330, 332, 35; ENGLT 303, 310, 311, 320, 321, 331, 332, 345, 360, 370, 380, 392, 401, 494; Foreign Language course 411, 412; HIST 300, 302, 364, 365; Humanities; Music: MUFHL 305, 310, 311; Philosophy; COMM 305; TA 300, 302, 303, 312. A student must take courses from at least five of the nine areas including one course in General Humanities.

Associate in Arts Degree (A.A.)
The Associate in Arts Degree may be obtained by completion of a minimum of 18 units from at least five of the nine areas, including one course from Humanities, plus general education requirements, and sufficient electives to meet a 60-unit total.

HUM 300 Classical Humanities 3 Units

Formerly: HUM 1

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C.
Acceptable for credit: UC (HUM 300 or 480, maximum one course)/CSU
54 hours Lecture
This is an interdisciplinary course dealing with Western Civilization literature, art, music, philosophy, and history. HUM 300 concentrates on Ancient Greece and Rome as well as the Middle Ages and the early Renaissance in Italy.

HUM 310 Modern Humanities 3 Units

Formerly: HUM 2

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course dealing with Western Civilization: literature, art, music, philosophy and history. HUM 310 concentrates on the Renaissance in Northern Europe to the present day.

HUM 332 American Humanities 3 Units

Formerly: HUM 7

Prerequisite: None
General Education: AA/AS Area C, F
Acceptable for credit: UC (HUM 332 or 483, maximum one course)/CSU
54 hours Lecture
This is an interdisciplinary course dealing with American painting, sculpture, decorative arts, philosophy, architecture, literature, music, dance, and entertainment. This course concentrates on the culture of the United States from the prehistoric American Indian through the 20th century.

HUM 350 Classical Mythology in Literature, Art and Music 3 Units

Formerly: HUM 5

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the influences of Greek and Roman mythology on literature, art, music, drama, and opera in the Western world.

HUM 352 Religious Themes in Western Art, Literature and Music 3 Units

Formerly: HUM 6

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an investigation of the Biblical stories and early Christian legends which have inspired well-known works of art, literature and music in the Western world; emphasis is on increasing the student's appreciation of these works.

HUM 480 Classical Humanities - Honors 3 Units

Formerly: HUM 1H

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (HUM 300 or 480, maximum one course)/CSU
54 hours Lecture
This is an interdisciplinary course dealing with the ancient world: Egypt, Greece, and Rome. The course covers literature, art, music, philosophy, and history. Primary sources will be read and much discussion will occur in the classroom. This honors section uses an intensive instructional methodology designed to challenge motivated students.

HUM 483 American Humanities - Honors 3 Units

Formerly: HUM 7H

Prerequisite: None
General Education: AA/AS Area C
Acceptable for credit: UC (HUM 332 or 483, maximum one course)/CSU
54 hours Lecture
This course is an interdisciplinary course dealing with American painting, sculpture, decorative arts, philosophy, architecture, literature, music dance, and entertainment. This course concentrates on the culture of the United States from the prehistoric American Indian through the twentieth century. This honors section uses an intensive instructional methodology designed to challenge motivated students.

Industrial Technology

Associate in Arts Degree

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Program Information

This program is designed for those students who wish to pursue a single subject credential in Industrial Arts to teach junior and senior high school, grades 7 -12. (Refer to Teacher Education in this catalog under Pre-professional Majors.) It is also for those students who are pursuing a Bachelor's Degree in Industrial Technology, Manufacturing Systems Technology, Mechanical Engineering Technology, Graphic Communication, Construction Technology, Electronics Engineering Technology, and Computer Technology in the California State University system.

Associate in Arts (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: Engineering Design Technology, Electronics Technology, Mechanical-Electrical Technology, Metals Industry Technology, Photography, or Graphic Communication, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Instructional Assisting

Associate in Arts Degree

Career Certificate

Instructional Assisting-Bilingual/Bicultural Emphasis, Degree and Career Certificate

Instructional Assisting-General, Degree and Career Certificate

Instructional Assisting-Special Education, Degree and Career Certificate

Division of Behavioral and Social Science

Kari Forbes-Boyte

Rodda North 226

916-558-2401

Career Opportunities

To prepare students for work in K-12 and related educational institutions at the paraprofessional level under the supervision of those with professional degrees and/or to serve as the first level of training in a career ladder leading to professional degrees in education. It is anticipated that future developments in the field of education will contain many openings at the paraprofessional level.

In order to provide intermediate recognition of students' achievements, certificates of achievement are available in three areas: Instructional Assisting: General, Special Education, and Bilingual/Bicultural Emphasis. Certificates should assist students' job search. Students proposing entry into this program should consult with counselors and Early Childhood Education instructors before pursuing it.

Instructional Assisting-Bilingual/Bicultural Emphasis

Associate in Arts Degree
Career Certificate

Required Program

Course	Units
FCS 312, Child Development	3
FCS 314, Child, Family, Community	3
ECE 400, The Exceptional Child	3
ECE 350, Introduction to Teaching	3
ECE 430, Culture and Diversity in Early Childhood Education	3
Foreign Language Courses 401, 402, 411, 412	12
Total Units Required	**27**

Students should take required language courses in one language. Students whose language proficiency exceeds level 401 or 402 may substitute appropriate language courses. Suggested languages would include, but are not limited to, Spanish, Russian, Japanese, Chinese (Cantonese), and Chinese (Mandarin), Tagalog, and Vietnamese.

Suggested Electives
HSER 375, ECE 300, 320, 321, 323, 335, 356, 358, 360, 362, 415, 498; TA 404, 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.

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

Instructional Assisting-General

Associate in Arts Degree
Career Certificate

Required Program

Course	Units
FCS 312, Child Development	3
FCS 314, Child, Family, Community	3
ECE 400, The Exceptional Child	3
ECE 350, Introduction to Teaching	3
ECE 410, Health and Safety in Child Care Settings	1
ECE 358, Activities for the Child 6-12 years old	3
ECE 323, The Effective Parent-Teacher	3
ECE 430, Culture and Diversity in Early Childhood Education	3
Elective	3
Total Units Required	**25**

Suggested Electives
HSER 375; ECE 300, 320, 321, 356, 360, 362, 415, 498; FCS 330, 340; TA 404, ENGLT 370.

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

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

Instructional Assisting-Special Education

Associate in Arts Degree
Career Certificate

Required Program

Course	Units
FCS 312, Child Development	3
FCS 314, Child, Family, Community	3
ECE 320, Principles of Early Childhood Education	4
ECE 335, Infant Development and Care	3
ECE 400, The Exceptional Child	3
ECE 350, Introduction to Teaching	3
ECE 410, Health and Safety in Child Care Settings	1
ECE 323, The Effective Parent-Teacher	3
ECE 430, Culture and Diversity in Early Childhood Education	3
Total Units Required	**26**

Suggested Electives
HSER 375; ECE 300, 321, 356, 415, 358, 360, 362, 498; TA 404, ENGLT 370.

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

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

International Studies

Associate of Arts Degree

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

The major consists of a core of 30-32 units, which satisfy university transfer requirements. Elective courses allow students to pursue interests in languages, culture, business, philosophy, history, fine arts, literature and other studies.

Students who undertake the ISP major will prepare for transfer to universities that offer International Studies Majors or related fields; engage in course work that will broaden their perspective and skills in the field of international relations; have access to individual counseling for program planning and career development through a mentoring program with the Program Director; and be afforded the opportunity to develop their foreign language proficiency.

Career Opportunities

Foreign Service, Governmental Relations, Public Affairs, International Trade, Civil Service, Lobbyist, Lawyer, Fiscal Analyst, Teacher, Non-Governmental Organization Staff, Language Specialist, International Advocate, International Consultant.

Recommended High School Preparation

Standard college preparatory program.

Four Year Transfer Information

UC/CSU systems require standard/basic preparatory course work prior to transfer. The ISP core courses (30 units) are designed to meet articulation and transferability to International Studies, International Relations, and International Business major requirements.

Required Program	**Units**
ANTH 310, Cultural Anthropology	3
ECON 302, Principles of Macroeconomics	3
Foreign Language (Two Semesters)	4, 4
GEOG 320, World Regional Geography	3
HIST 308, World History from 1500 to the Present	3
HIST 311, History of the United States	3
POLS 310, Introduction to International Relations	3
SOCSC 494, Special Topics in International Studies	1-3
COMM 325, Intercultural Communication	3
Total Units Required	**30-32**

Suggested Electives

HCD 310, ECON 304, Non-Western Art, World Music, World Religions, Chinese, Japanese, French, Spanish, Russian, German, Vietnamese, HIST 307, ENGLT 480.

Associate in Arts Degree (A.A.)

The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Journalism JOUR

Associate in Arts Degree

Publications Specialist, Career Certificate

Division of Language and Literature

Julia Jolly, Dean

Rodda South 226

916-558-2325

The Journalism Department produces the Express, a weekly newspaper (which regularly wins regional, state, and national awards for excellence). The newspaper is produced by reporters, editors, and photographers enrolled in JOUR 402, a three-unit laboratory course. The paper is distributed free on Thursdays in stands around campus.

Career Opportunities

This program gives students the opportunity to prepare for entry-level positions as writer, reporter, photographer for small newspaper, newsletter, or magazine; newsletter or in-house publication writer, editor, and designer; copyeditor; technical writer or editor; desktop publisher or designer; or other positions that include writing, editing, photography, and/or desktop publishing.

Required Program	**Units**
JOUR 300, Newswriting and Reporting	3
JOUR 404, Editing and Production	3
JOUR 402, College Newspaper Production	3
PHOTO 301, Beginning Photography	3
JOUR 497, Internship in Journalism	1-4
JOUR Electives	6
GCOM 310, Beginning PageMaker, or GCOM 316, Beginning Quark XPress	3
GCOM 311, Advanced PageMaker, or GCOM 317, Advanced Quark XPress	3
Other suggested electives	4
Total Units Required	**29-32**

Journalism Electives - Select six (6) units from the following: JOUR 320, ENGWR 330/JOUR 340, or ENGWR 330.1/330.2, JOUR 340.1/340.2, ENGWR 384/JOUR 310, JOUR 405.

Suggested Electives
CISA 305 and 306; GCOM 101, 300, 319, and 330; PHOTO 322 and 350; ENGWR 300.

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

Publications Specialist Career Certificate
A Career Certificate may be obtained by completion of the required program with grades of "C" or better or equivalent.

Journalism (JOUR)

JOUR 300 Newswriting and Reporting 3 Units
Formerly: JOUR 20A

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a beginning course in newswriting and reporting. It provides instruction and practice in news reporting and fundamentals of news writing, including analyses of news stories and different types of stories in newspapers and magazines. Course concentrates on the lead and simple story types, organization and structure of news stories, and the language and style of journalism.

JOUR 310 Mass Media and Society 3 Units
(Same as COMM 351 and ENGWR 384)
Formerly: JOUR 19

Prerequisite: Eligibility for ENGWR 300.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This is an interdisciplinary course exploring aspects of communication and the impact of mass media on the individual and society. The survey includes basic communication models, books, magazines, newspapers, recordings, movies, radio, television, advertising, public relations, the Internet, theories of communication, relationships between mass media and business and government, processes and effects from a social science perspective.

JOUR 320 Race and Gender in the Media 3 Units
Formerly: JOUR 12

Prerequisite: None
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This multi-media course is an overview of print and broadcast journalism in the U.S. from World War I to the present. Using readings from selected texts, old newsreels, clips from movies, radio and television broadcasts, as well as period literature, students will analyze and debate the changes in journalism with particular focus on social class, gender, and ethnicity. Critical thinking will be emphasized in this course.

JOUR 340 Writing for Publication 3 Units
(Same as ENGWR 330)
Formerly: JOUR 14A

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
54 hours Lecture
This is an introductory course in writing nonfiction for publication. Emphasis will be on developing a saleable magazine article; finding ideas; analyzing magazines; writing a query letter; researching and interviewing; organizing, writing, and illustrating an article.

JOUR 340.1 Writing for Publication: 1.5 Units
Writing and Editing Concentration
(Same as ENGWR 330.1)
Formerly: JOUR 14C

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in writing and editing non-fiction articles for publication. The course will emphasize audience analysis, researching facts, conducting interviews, organizing articles, determining focus, preparing drafts, editing and rewriting. Students will have the opportunity to write a variety of types of articles, and will be encouraged to prepare these for sale. Particular concentration will be on improving writing style, learning new styles and forms, looking for weaknesses in writing, developing an eye for areas that could be stronger, and learning how to rewrite. Students will learn copyediting and proofreading, and will get ample practice to make them more confident about editing their work.

JOUR 340.2 Writing for Publication: 1.5 Units
Marketing Concentration
(Same as ENGWR 330.2)
Formerly: JOUR 14D

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
27 hours Lecture
This is an introductory course in developing salable magazine articles. The course will emphasize analyzing markets, writing query letters, focusing ideas, approaching editors, preparing articles for publication, working with editors on editing or changing articles, using information in a number of articles, and becoming familiar with a wide range of publications.

JOUR 350 Writing For Broadcasting 3 Units
Formerly: JOUR 21

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
54 hours Lecture
This course covers the theory and technique of writing for the broadcast media. It includes reporting for radio and television news, writing and storyboarding commercials and public service programming, and an introduction to production techniques. The course is recommended for students who plan to work in broadcasting, instructional media, and related fields.

JOUR 402 College Newspaper Production 3 Units
Formerly: JOUR 30

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
Acceptable for credit: CSU
18 hours Lecture; 108 hours Laboratory
This is a course in which students produce the college newspaper 12 times a semester. The course is open to students who show ability in news writing, advertising, graphics, art work, photography, or editing. This course may be taken four times for credit.

JOUR 404 Editing and Production 3 Units

Formerly: JOUR 33

Prerequisite: Eligibility for ENGWR 300.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course emphasizes editing and designing newspapers, magazines, and other publications. Topics include news and feature writing, copyediting, headline writing, page make-up and design, and production methods. Editorial writing, press ethics, and press law are also discussed.

JOUR 405 Publications Production Skills Lab .5-3 Units

Formerly: JOUR 47

Prerequisite: None
Acceptable for credit: CSU
162 hours Laboratory
This lab course helps students improve their writing, editing, and computer skills as an addition to their enrollment in editing and production and/or college newspaper production. Students may earn up to three units per semester, and repeat the class until they reach a maximum of six units.

JOUR 497 Internship in Journalism 1-4 Units

Formerly: JOUR 48

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
18 hours lecture and 75 hours of related activity for one unit; 75 hours of related activity for each additional unit. Students participate in one hour of conference and four hours of work related activity per week per unit. Students must complete 75 hours of related activity for each additional unit (per semester). This is a supervised internship in reporting either for the print or electronic media. The course may be repeated for credit as long as there is new or expanded learning on the job.

Liberal Studies for Elementary Teachers

Associate in Arts Degree

Division of Behavioral and Social Science
Dr. Kari Forbes-Boyte, Dean
Rodda North 226
916-558-2401

This major is designed for students interested in teaching Kindergarten through 8th grade. Courses included in this major transfer into the blended elementary teacher education program at California State University, Sacramento. Students who complete this major will be eligible to apply for the CSUS program to complete a bachelor degree and the requirements for a multiple subject teacher credential.

Required Program	**Units**
Students must complete all of the following courses:	
FCS 312, Child Development	3
ECE 350, Introduction to Elementary Teaching with Field Experience	3
ENGWR 300, College Composition	3
ENGWR 302, Advanced Composition and Critical Thinking	3
ENGED 305, The Structure of English	3
ENGED 320, Service Learning: Tutoring Elementary Students in Reading	3
ECON 302, Principles of Macroeconomics	3
HIST 307, World History to 1500, AND HUM 310, Modern Humanities	6
OR	
HIST 308, World History from 1500 to Present, AND HUM 300, Classical Humanities	6
HIST 310, History of the United States	3
MATH 310, Mathematical Discovery	3
POLS 301, Introduction to Government: United States	3
COMM 301, Public Speaking, OR COMM 361, The Communication Experience	3
GEOL 305, Earth Science	3
GEOL 306, Earth Science Laboratory	1
BIOL 308, Contemporary Biology	4
BIOL 309 Contemporary Biology Laboratory	1
Total Units	**47**

Other CSUS requirements:	**Units**
SOC 321, Race, Ethnicity, and Inequality in the United States, or ENGLT 334, Asian-American Literature	3
Foreign Language: Students must complete the intermediate level (3rd semester)	0-12

Note: Students completing the required program and other CSUS requirements may apply for a special admit to CSUS.
Grade point average must be 2.67 in transferable baccalaureate courses.

The Writing Proficiency Exam should be taken at CSUS the last semester before transfer.

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.

Students should accumulate a portfolio of their course work, obtain a letter of recommendation from their field experience cooperating teacher, and check with their counselor for other CSUS application and admission 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.

Electives:
Sufficient electives must be completed to meet a 60-unit total for the A.A. degree. The following are suggested:

ENGLT 370, Children and Literature 3
MUFHL 320, Exploring Music 3
ECE 360, Art in Early Childhood 3
ECE 430, Culture and Diversity in Early Childhood Education..... 3
COMM 361, The Communication Experience..... 3
COMM 331, Group Discussion..... 3
SILA 334, Sign Language for Educators..... 1
CISC 300, Computer Familiarization 1
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
SOCSC 335, Introduction to Native American Studies 3
SOCSC 336, Native American Culture and the
Impact of Federal Policy 3
SOCSC 320, Socio-Cultural, Economic and
Political Experience of the African-American..... 3
SOCSC 330, Mexican-American in the United States 3
SOCSC 332, The Sociology and Psychology of
the Mexican-American 3
SOCSC 325, Asian Experience in America..... 3

Students should consult a counselor for other associate degree graduation requirements.

Liberal Studies

Associate in Arts Degree

Division of Language and Literature

Julia Jolly, Dean

Rodda South 226

916-558-2325

A major in Liberal Studies may be obtained by completing a combination of 18 transfer units from courses listed below with grades of "C" or better. At least nine (9) units must be concentrated in one of the four areas. At least three (3) units must be completed in each of the other three areas.

Required Program

English/English as a Second Language/ Journalism
Foreign Languages/Sign Language Studies
Communication and Theatre Arts
Humanities and Philosophy

Associate in Arts Degree (A.A.)

The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total.

Library LIBR

Division of Learning Resources

Yvonne Maller, Interim Dean

Learning Resource Center 236

916-558-2253

The Sacramento City College Library courses are designed to equip students with vital research skills, enabling their success in college classes and on the job. Students will gain "research survival skills" to cope with the information rich environment in which they live and work. In particular, these classes teach students how to find and evaluate information from print, the Internet, and other online resources.

SCC Librarians have created handouts to assist students with research and offer non-credit sessions demonstrating the use of library resources and the Internet. Librarians are also available to guide students through the research process at their own pace and according to their own needs whenever the library is open. Please drop by the reference desk on the second floor of the Learning Resource Center for assistance or more information.

LIBR 305 Legal Information Resources .5 Unit

Prerequisite: None
Acceptable for credit: CSU
9 hours Lecture
This course will explore both print and electronic legal information resources. Students will gain a general understanding of the legal system in the United States and the resources that are available. They will learn how to analyze their topics, define their information needs, and utilize the appropriate legal resources. It is designed for people working in libraries with legal resources or individuals interested in the legal field.

LIBR 306 Genealogy Research .5 Unit

Prerequisite: None
Acceptable for credit: CSU
9 hours Lecture
This course will introduce the basics of the genealogical research process including various strategies for obtaining and sharing information about your family background. It will explore many of the print and online resources available for genealogical research and will train students to analyze and evaluate genealogical resources. It is designed for people who are interested in learning genealogy, but who have no previous training or experience with genealogical research. Basic familiarity with a computer is recommended for this course.

LIBR 307 Medical Information Resources .5 Unit

Prerequisite: None
Acceptable for credit: CSU
9 hours lecture
This hands-on course will explore print and electronic sources of medical information. It is designed for people working in libraries with medical resources or individuals interested in the medical field.

LIBR 309 Consumer Business Reference .5 Unit

Prerequisite: None
Acceptable for credit: CSU
9 hours Lecture
This course explores basic resources that today's business consumers can utilize to fulfill their business information needs. Topics include sources for investment decisions, small business and franchise information, career resources and consumer research. The class uses a hands-on problem solving approach that emphasizes Internet and other electronic sources.

LIBR 311 Online Searching .5 Unit

Prerequisite: None
Acceptable for credit: CSU
9 hours Lecture
This course will help students develop a basic knowledge of search strategies and online databases and catalogs using resources such as EBSCOhost, EUREKA, LOIS, MELVYL, NewsBank, ProQuest, and the Internet. It is designed for students who wish to become comfortable utilizing a variety of informational resources for research.

LIBR 318 Library Research and Information Literacy 1 Unit

Formerly: LIBR 15

Prerequisite: None
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
18 hours Lecture
This course will help students acquire the information competency skills necessary to conduct academic or personal research. It provides a step-by-step guide to the research process that is applicable to term papers, course work, and life-long learning. It emphasizes developing effective search strategies, selecting information tools, locating and retrieving information sources, analyzing and critically evaluating information, organizing and using information.

LIBR 320 Internet Research Skills 1 Unit

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course will acquaint students with the history, structure, and tools of the Internet as used in research for academic and personal use. Students will learn how to use a variety of Internet resources and evaluate research-quality information. Topics include e-mail, mailing lists, and search tools.

Library and Information Technology

Associate in Science Degree

Career Certificate

Division of Learning Resources

Yvonne Maller, Interim Dean

Learning Resource Center 236

916-558-2253

Career Opportunities

The Library and Information Technology program is designed to assist students in the development of a wide range of technical skills in both library and media services. Additionally, the curriculum is a valuable introduction to the field for students who plan to go into graduate studies to become librarians.

Almost every community in the nation has a library. In the greater Sacramento area alone, there are almost 200 libraries of various kinds employing professional librarians and library clerks and technicians. Jobs are available in public, school, businesses, and special libraries as well as in media centers.

Required Program	**Units**
LIBT 325, Introduction to Internet and Searching Strategies	3
LIBT 300, Introduction to the Library	3
LIBT 303, Library Reference Sources	3
LIBT 330, Library Technical Processes	3
LIBT 331, Library Cataloging Procedures	3
LIBT 333, Library Media/Materials and Equipment	3
LIBT 498, Work Experience in Library Services	3-4
Total Units Required	**21-22**

Suggested Electives

LIBR 318, LIBR 320, LIBR 305, LIBR 309, LIBR 311, LIBR 307; LIBT 341, LIBT 340, LIBT 499; BUSTEC 300; CISC 310, CISA 305; ENGLT 370; Foreign Conversational Language courses.

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.

Career Certificate

The Career Certificate may be obtained by completion of all courses in the required program with a minimum grade of "C" plus approval of the Library and Information Technology Department.

Library and Information Technology (LIBT)

LIBT 300 Introduction to the Library 3 Units

Formerly: LIBT 51

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture

This course is designed for students wishing to develop proficiency in the use of the library resources and for persons interested in paraprofessional library employment. The course covers the development, history and types of libraries and information providers; an overview of library services; instruction and practice in the use of library classification systems, library public catalogs and indexes; and a presentation of employment opportunities.

LIBT 303 Library Reference Sources 3 Units

Formerly: LIBT 61

Prerequisite: LIBT 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture

This course acquaints students with library references including general and specialized encyclopedias, yearbooks, general and specialized dictionaries, printed and online indexes, microforms, newspapers, government documents, and bibliographies. The course includes introduction to levels of reference and public services.

LIBT 325 Introduction to Internet and Searching Strategies 3 Units

Formerly: LIBT 30

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides an introduction to the use of Internet and other electronic searching strategies. The course will address numerous Internet features such as Email, Telnet, FTP, Newsgroups and Mailing Lists. The course content will emphasize the comparison and evaluation of information sources, and the Internet's role in a library setting.

LIBT 330 Library Technical Processes 3 Units

Formerly: LIBT 62

Prerequisite: LIBT 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course will introduce the student to the work in a library Technical Services department. A primary focus will be duties and responsibilities of the library paraprofessional in regard to acquisitions processes (selection, verification, ordering and receiving). Also included is an overview of other Technical Services responsibilities, such as cataloging and catalog maintenance.

LIBT 331 Library Cataloging Procedures 3 Units

Formerly: LIBT 71

Prerequisite: LIBT 300 and LIBT 330 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course will introduce the student to the rules and practices of cataloging. The course includes the study of both descriptive and subject cataloging including the study of classification systems. The course will also cover the formats required for both computerized and traditional catalog records.

LIBT 333 Library/Media Materials and Equipment 3 Units

Formerly: LIBT 91

Prerequisite: LIBT 300 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This is a survey course in the understanding, use, and care of electronic media materials and equipment used in libraries. The course includes the utilization of the Internet, CD-ROM databases, video and related technology.

LIBT 340 The School Library Media Center 3 Units

Formerly: LIBT 94

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a course on the School Library Media Center designed to provide a broad overview of its philosophy, history, function, and relationship to elementary and secondary schools. The course will cover the acquisition of materials, use of computers and automation, staffing, organization, and the relationship between the library program and the school curriculum.

LIBT 341 Library Services for Children 3 Units

Formerly: LIBT 92

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will introduce students to children's library services. The course will cover the historical developments of children's literature, sociological and psychological implications, selection and evaluation of children's library materials, storytelling, and children's program preparation.

LIBT 494 Topics in Library and Information Technology .5-4 Units

Formerly: LIBT 97

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course is designed to examine current issues or specific topics relevant to the field of Library and Information Technology. The topics to be covered each semester will be determined by the Library and Information Technology faculty.

LIBT 498 Work Experience in Library and Information Technology 1-4 Units

Formerly: LIBT 98

Prerequisite: LIT 300, 303, and 330 with grades of "C" or better.
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
This is a structured on-the-job training experience in several Sacramento area libraries and media centers under the supervision of professional librarians and media specialists. Each student is required to work in a minimum of two libraries. If the student is already working in a library, the current job may be counted as one of the libraries. Credit hours may be earned for three or four units, 60 hours of unpaid work per unit or 75 hours of paid work per unit. In addition, each student will be required to keep a job journal, write a career essay, and prepare two periodical readings (one subject oriented and the other career related). There will also be a midterm and a final examination.

Mathematics MATH

Associate in Science Degree

Division of Mathematics/Statistics & Engineering

Ron Hatton, Interim Dean

South Gym 220

916-558-2202

Career Opportunities

This program gives students the opportunity to complete the lower-division coursework in preparation for transfer to a four-year program in mathematics. Mathematicians work as statisticians, analysts, computer programmers, actuaries, researchers, planners and educators.

This major is designed to meet some of the lower-division requirements for a major in Mathematics.

Required Program **Units**

Choose 21 units from the following courses:

MATH 400, Analytical Geometry and Calculus I 5
MATH 401, Analytical Geometry and Calculus II 5
MATH 402, Analytical Geometry and Calculus III 5
MATH 420, Differential Equations 4
MATH 410, Introduction to Linear Algebra 3
STAT 300, Introduction to Probability and Statistics 4

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.

Mathematics (MATH)

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

MATH 27 Self-Paced Basic Skills Mathematics .5-2 Units

Formerly: MATH 200

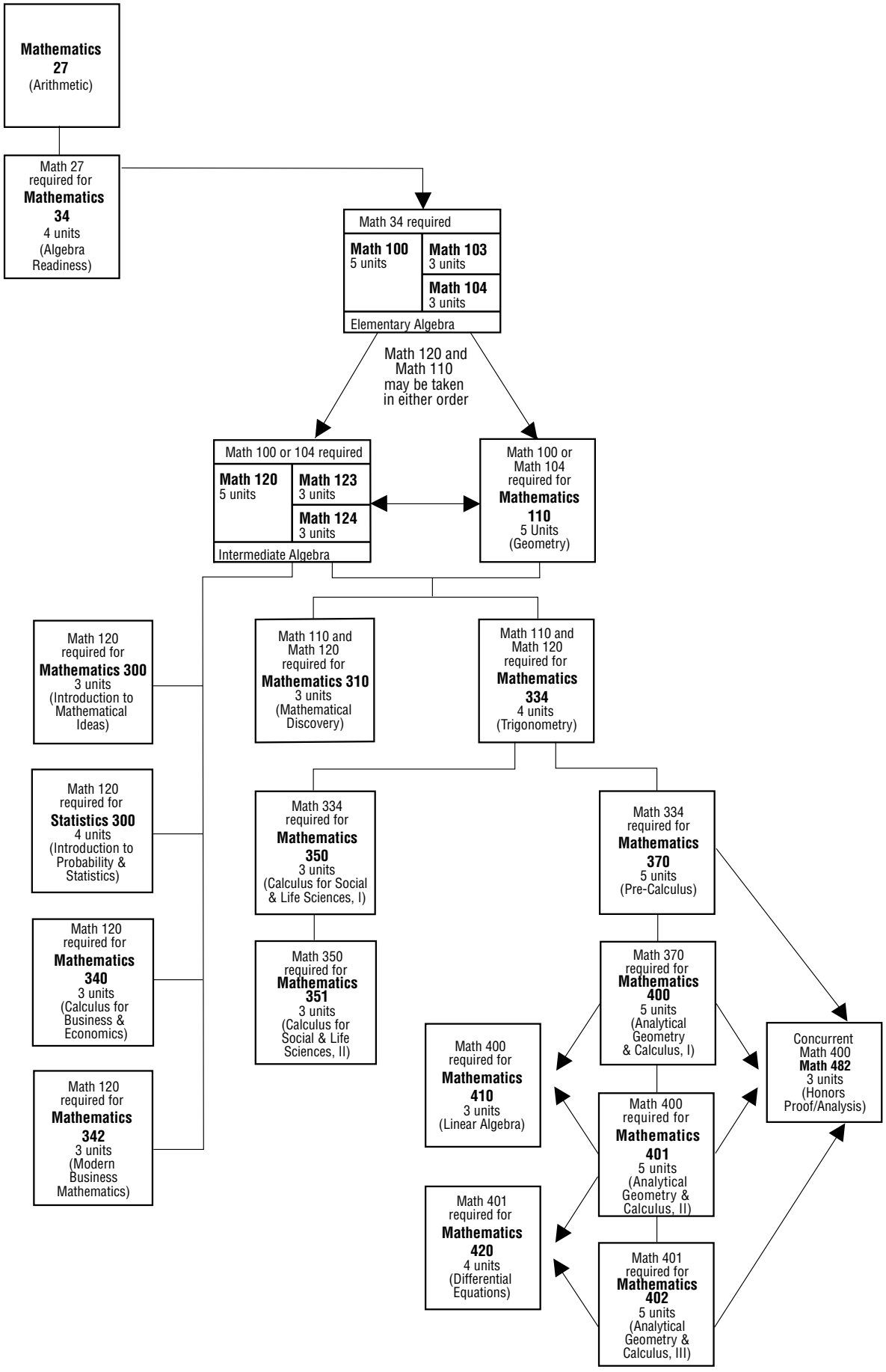
Prerequisite: None
108 hours Laboratory
This is a self-paced course in basic mathematics skills including the basic operations of addition, subtraction, multiplication and division applied to the whole numbers, fractions, and decimals. This course is graded Credit/No Credit and does not fulfill the learning skills requirement for graduation. This is an open-entry/open-exit course with admission as late as the 12th week. Repeatable up to two units.

MATH 34 Pre-Algebra 4 Units

Formerly: MATH 220

Prerequisite: Successful completion of MATH 27 or eligibility as determined by the assessment process.
72 hours Lecture
The emphasis in this course will be on skills necessary for success in elementary algebra. Course content will include review of fundamentals of arithmetic including whole numbers, common fractions, decimal fractions, and percentages. Other topics include order of operations, signed numbers, complex fractions, exponents, and scientific notation. There will be an introduction to the algebra of polynomials as time permits.

Mathematics Sequence



MATH 80 Mathematics Study Skills 1 Unit

Prerequisite: None
18 hours Lecture
This course will help students increase their motivation and confidence and maximize their abilities in any mathematics course. Students will consider their current levels of math and test anxieties and make progress in lowering them to a productive level. Students will gain strategies to overcome barriers to mathematical success. Specific concepts will be designed for the current level of each student. Students may take this course along with another Mathematics or Statistics course, or may wish to take the course as preparation before enrolling in a Mathematics or Statistics course. This class is graded as Credit/No Credit.

MATH 100 Elementary Algebra 5 Units

Formerly: MATH 51

Prerequisite: MATH 34 (or MATH 30 at CRC) with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
90 hours Lecture
This course includes the fundamental concepts and operations of algebra with problem solving skills emphasized throughout. Topics include: properties of real numbers, linear equations and inequalities, integer exponents, polynomials, factoring polynomials, rational expressions and equations, radical expressions and equations, rational exponents, systems of linear equations and inequalities, the rectangular coordinate system, graphs and equations of lines, and solving quadratic equations.

MATH 103 Elementary Algebra, Part I 3 Units

Formerly: MATH 51A

Prerequisite: Completion of MATH 34 with a grade of "C" or better or eligibility as determined by the assessment process.
54 hours Lecture
This course will cover the first half of the traditional MATH 100 course including a brief review of signed numbers, algebraic expressions, linear equations and inequalities, graphing, factoring and applications. This format of the course offers the students the opportunity to learn the skills of algebra and problem solving techniques at a slower pace than Mathematics 100.

MATH 104 Elementary Algebra, Part II 3 Units

Formerly: MATH 51B

Prerequisite: MATH 103 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
54 hours Lecture
This course introduces the second half of the traditional MATH 100 course to students wishing to study the topics in a longer time frame. The course content includes a review and extension of graphing of linear equations and inequalities, rational expressions, the study of systems of linear equations and inequalities, radicals and quadratic equations, and continued development in solving word problems.

MATH 110 Elementary Geometry 5 Units

Formerly: MATH 52

Prerequisite: MATH 100 (or MATH 104) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
90 hours Lecture
This course introduces Euclidean Geometry. Topics include axioms and postulates, deductive and inductive reasoning, proof, triangles, quadrilaterals, congruence, similarity, constructions, the Pythagorean Theorem, right triangle trigonometry, circles, analytic geometry and elementary solid geometry.

MATH 120 Intermediate Algebra 5 Units

Formerly: MATH 53

Prerequisite: MATH 100 (or MATH 104) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
90 hours Lecture
This course reviews and extends the concepts of elementary algebra, with problem solving skills emphasized throughout. Topics that are reviewed and expanded 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, complex numbers, and an introduction to conic sections.

MATH 123 Intermediate Algebra, Part I 3 Units

Prerequisite: MATH 100 with a grade of "C" or better, MATH 104 with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
54 hours Lecture
This course reviews and extends the concepts of elementary algebra with problem solving skills emphasized throughout. Topics include linear equations and inequalities, factoring of polynomials, rational expressions, exponents, radicals, equations of lines, functions and absolute value equations and inequalities, and complex numbers.

MATH 124 Intermediate Algebra, Part II 3 Units

Prerequisite: MATH 123 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
54 hours Lecture
This course reviews and extends the concepts of elementary algebra and intermediate algebra part I with problem solving skills emphasized throughout. Topics include quadratic expressions, equations, inequalities and graphs, conic sections, rational function graphs, systems of equations, matrices, determinants, exponential and logarithmic functions, sequences and series.

MATH 170 Algebra Review for Calculus 2 Units

Formerly: MATH 55

Prerequisite: Successful completion of second year high school algebra or MATH 120 (or MATH 124).
General Education: AA/AS Area D2 and mathematics competency.
36 hours Lecture
This credit/no credit course is a review of the algebraic skills necessary for successes in calculus. This course is appropriate for students who have had a lapse in time since their preparation for calculus and/or want to review and increase their self-confidence in their algebraic and problem solving skills before beginning their study of calculus.

MATH 300 Introduction to Mathematical Ideas 3 Units

Formerly: MATH 1

Prerequisite: MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is intended to help the general student relate to the spirit of mathematics through a study of some fundamental ideas of mathematics. Several specific topics will be covered, to be chosen from: numeration systems, logic, sets, number theory, algebraic modeling, geometry, combinatorics, probability, statistics, consumer mathematics, graph theory, voting and apportionment, matrices and perhaps others. This course is not recommended for students entering elementary school teaching or for business administration majors.

MATH 310 Mathematical Discovery 3 Units

Formerly: MATH 2

Prerequisite: 1) MATH 110, or Geometry with a grade of "C" or better, AND 2) MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to introduce students to the spirit of mathematics by involving them in aspects of mathematical processes of exploration, conjecture, and proof. Students will explore 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 334 Trigonometry 4 Units

Formerly: MATH 15

Prerequisite: 1) MATH 110, or Geometry with a grade of "C" or better, AND 2) MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: CSU
72 hours Lecture
This course focuses on the fundamental concepts of trigonometry and their applications. Topics include: functions of angles, circular functions, radian measure, trigonometric identities and equations, graphing of trigonometric, parametric and polar equations, inverse trigonometric functions, solutions of triangles, applications of vectors and trigonometric representation of complex numbers. Other topics may be included at the discretion of the instructor.

MATH 340 Calculus for Business and Economics 3 Units

Formerly: MATH 43

Prerequisite: Completion of MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 340 or 350, maximum one course)/CSU
54 hours Lecture
The content of this course includes review of the logarithmic and exponential functions, intuitive introduction to limits, development of the derivative, definite integral and partial derivates. Application of these concepts to economics and business will be emphasized.

MATH 342 Modern Business Mathematics 3 Units

Formerly: MATH 44

Prerequisite: MATH 120 (or MATH 124) with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: CSU
54 hours Lecture
This is a course designed around applications of mathematics in economic and business contexts. Specific topics will include functions and related business formulas, tables and graphs, finance (interest and exponential models in economics), rates of changes including applications and optimization, and linear programming.

MATH 350 Calculus for the Life and Social Sciences I 3 Units

Formerly: MATH 16A

Prerequisite: MATH 334 (or MATH 335 at CRC) with a grade of "C" or better, or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 340 or 350, maximum one course; MATH 350 and 351 or 400 and 401 and 402, maximum one series)/CSU
54 hours Lecture
This course is an introduction to calculus. Topics include functions, trigonometric functions, limits, analytic geometry, and differential calculus with applications to business, social and biological sciences. This course is intended for students majoring in social and biological sciences.

MATH 351 Calculus for the Life and Social Sciences II 3 Units

Formerly: MATH 16B

Prerequisite: Completion of MATH 350 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
54 hours Lecture
This course is a continuation of Mathematics 350. Topics include: definite and indefinite integrals, power series, analytic geometry, multivariate calculus, and differential equations, with applications to business, social and biological sciences.

MATH 370 Pre-Calculus Mathematics 5 Units

Formerly: MATH 29

Prerequisite: MATH 334 (or MATH 335 at CRC) with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (maximum four units)/CSU
90 hours Lecture
This course is designed to prepare students for MATH 400, 401, and 402. Course content includes a brief review followed by an in-depth extension of the properties of polynomial, rational, exponential, logarithmic and trigonometric functions. Additional topics include systems of linear and non-linear equations and inequalities, conic sections, sequences and series, analytic geometry, vectors, polar and parametric equations. Graphing calculators may be required for this class.

MATH 400 Analytic Geometry and Calculus I 5 Units

Formerly: MATH 9A

Prerequisite: Completion of MATH 370 with a grade of "C" or better or eligibility as determined by the assessment process.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
90 hours Lecture
This course explores the basic concepts of analytic geometry, limits, including indeterminate forms, derivatives and integrals. The topics covered will include graphs, derivatives, and integrals of algebraic, trigonometric, exponential, logarithmic and hyperbolic functions. Many applications will be covered, including those involving rectilinear motion, differentials, related rates, graphing and optimization.

MATH 401 Analytic Geometry and Calculus II 5 Units

Formerly: MATH 9B

Prerequisite: MATH 400 with a grade of "C" or better or equivalent.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
90 hours Lecture
This course is a continuation of MATH 400. Topics covered will include techniques of integration, numerical integration, improper integrals, infinite series, parametric equations, polar coordinates, and conic sections. Many applications will be covered including those involving areas between plane regions, volumes of revolution, work, moments and centers of mass, average value, arc length, and surface area.

MATH 402 Analytic Geometry and Calculus III 5 Units

Formerly: MATH 9C

Prerequisite: MATH 401 with a grade of "C" or better or equivalent course with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC (MATH 350 and 351 or MATH 400 and 401 and 402, maximum one series)/CSU
90 hours Lecture
This course extends the concepts of limits, derivatives and integrals to vector-valued functions and functions of more than one variable. The topics covered will include three-dimensional analytic geometry and vectors, partial derivatives, multiple integrals, line integrals, surface integrals, and the theorems of Green, Gauss (Divergence) and Stokes. Many applications of the calculus will be included.

MATH 410 Introduction to Linear Algebra 3 Units

Formerly: MATH 35

Prerequisite: MATH 400 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces linear algebra. Topics include matrices, determinants, systems of equations, vector spaces, linear transformations, eigenvectors and applications. The course is intended for majors in mathematics, engineering, science, and related fields.

MATH 420 Differential Equations 4 Units

Formerly: MATH 11

Prerequisite: MATH 401 with a grade of "C" or better.
General Education: AA/AS Area D2 and mathematics competency.
Acceptable for credit: UC/CSU
72 hours Lecture
This course will cover the theory and applications of the solutions of ordinary differential equations and systems of ordinary differential equations. Students will be introduced to various topics useful in the solution of these differential equations including power series, Laplace transforms, matrices, eigenvalues and eigenvectors and numerical methods.

MATH 482 Honors Introduction to Proof and Analysis 3 Units

Prerequisite: MATH 400 with a grade of "C" or better or concurrent enrollment in MATH 400, eligibility for admission to the Honors Program.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is intended to give the student an introduction to the theoretical foundations of calculus. Methods of proof will be discussed, especially as they relate to the theorems and techniques of calculus. This honors course uses an emphasis on mathematical proofs to challenge motivated students.

MATH 494 Topics in Mathematics .5-5 Units

Formerly: Math 22

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
90 hours Lecture
This course is designed to enable both mathematics and non-mathematics students to learn about current and emerging topics in mathematics. Selected topics will not include those that are part of current course offerings. This course may be repeated for credit, provided there is no duplication of topics.

MATH 496 Teaching Assistant in Mathematics 1-3 Units

Formerly: Math 46

Prerequisite: A grade of "C" or better in the course for which the student is going to be a teacher aide.
Acceptable for credit: CSU
9-27 hours lecture, 27-81 hours Laboratory
This course is for students who want to develop an indepth understanding of the fundamentals of mathematics and learn to work with individual and small groups of students.

Mechanical-Electrical Technology
M E T

Associate in Science Degree

Career Certificate

Mechanical-Electrical Technology, Degree and Career Certificate

Machinery Systems Technician, Career Certificate

Vending and Automatic Merchandising, Degree and Career Certificate

Wastewater Treatment Plant Operation, Degree and Certificate

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Program Information

The Mechanical-Electrical Technology (MET) program provides instruction involved with installing, operating, and maintaining machinery systems. Heating, ventilating, air conditioning and refrigerating (HVAC/R) systems are typical of the machinery systems that MET students study. Other areas of instruction include: vending machine repair; water and waste water treatment plant operation; heat pump service and repair, steam plant operation and maintenance; refrigeration plant operation and maintenance; household appliance repair; operation of solar systems and computer; control of HVAC/R devices. Technical communications, drafting, science, and mathematics, as they are directly applied in the field are also studied.

The program includes both day and evening lecture and laboratory classes. In laboratory classes, students use hand, heat, and power tools to install, operate, and maintain machinery systems. Also by utilizing the MET department's steam boiler, ammonia refrigeration system, 15-ton chilled water air conditioning system, direct digital control system, large and small appliances, and vending machines, students gain hands-on experience that is valuable in the workplace.

Students who satisfactorily complete the program earn a Career Certificate. Many of the students completing the program also qualify for an Associate of Science degree. Students may also earn an additional certificate in Wastewater Treatment Plant Operation.

Career Opportunities

Upon completion of the MET program, students may find employment in any of the following types of jobs: air conditioning service, household appliance service, refrigeration service, vending machine service, steam power plant operation, potable water treatment plant operator, waste-water treatment plant operator, stationary engineer, maintenance mechanic, refrigeration or air conditioning mechanic trainee, automatic control technician, solar technician trainee, wholesale and manufacturer's sales representative, and technical preparation for a vocational teacher.

Recommended High School Preparation

Completion of English and general mathematics. It is desirable, but not required, to complete courses in drafting, industrial arts shop, algebra, plane geometry, and computer fundamentals.

Program Information

Mechanical-Electrical Technology is studied in lecture, laboratory, and shop classes. Mathematics, science and drafting, which are all related to the MET program, are also studied in MET courses.

Program Costs

In addition to normal student expenses such as textbooks, MET students must purchase coveralls and safety glasses for use in laboratory and shop classes. If this fee creates a financial burden, students should consult the Financial Aid Office for possible assistance.

Admission to Program

Prerequisites for Mechanical-Electrical Technology 51 and 52 must be met before enrollment For information call (916) 558-2278, (916) 558-2358, (916) 558-2278, or (916) 558-2491.

Required Program	Units
MET 351, Basic Machinery Systems	5
MET 352, Machinery Systems Calculations	5
MET 355, Oxy-Acetylene Welding and Related Processes	3
OR	
MIT 320, Oxy-Acetylene Welding and Related Processes	1.5
MET 220, Technical Communication,	3
OR	
MET 257, Fundamentals of Workplace Success	1.5
MET 361, Refrigeration Systems	4
MET 362, Refrigeration Systems Calculations	3
MET 363, Refrigerant Transition and Recovery	1.5
MET 364, Electrical Controls	4
MET 395 or 392 or 397 or 396	3
MET 371, Heating and Power Machinery	4
MET 372, Power Machinery, Heating and AC	3
MET 373, Piping, Electrical and Sheetmetal Drafting	4
MET 374, Automatic Controls Systems	3
MET 381, Air Conditioning	4
MET 383, Instrumentation	4
MET 384, Automatic Control Systems II	3
Total Units Required	**53.5-56.5**

Although a student may elect to take more than one of these optional classes, MET 395, 392, 397, or 396, only one of the four is required. These courses may be taken in any semester.

Suggested Electives
MET 382, 385, 386, 230 and 231, PHYS 310.

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

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

Wastewater Treatment Plant Operation

Associate of Science Degree

To obtain the Wastewater Treatment Plant Operation certificate sponsored by California State University, Sacramento and the Mechanical-Electrical Technology Department at Sacramento City College, a student must complete the courses in the Mechanical-Electrical Technology required program, plus MET 397 with grades of "C" or better.

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

Transfer Students
Students who, after completing this program, are planning to continue specialization in this field by transferring to a four-year university, should consult the Requirements of Transfer Institutions section in this catalog and the Engineering or related major sections of the specific catalog for the institution to which they wish to transfer. Consultation with an SCC counselor is urged.

Vending and Automatic Merchandising

Associate of Science Degree
Career Certificate

The primary emphasis of this program is preparation for entry level employment as a Vending and Automatic Merchandising Service or Repair Technician.

Required Program	Units
MET 351, Basic Machinery Systems	5
MET 352, Machinery Systems Calculations	5
MET 220, Technical Communication	3
MET 361, Refrigeration Systems	4
MET 362, Refrigeration Systems and Calculations	3
MET 364, Electrical Controls	4
MET 395, Automatic Dispensing and Vending Machines	3
Total Units Required	**27**

Suggested Electives
MET 256, PHYS 310.

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

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

Machinery Systems Technician

Career Certificate

Required Program

Courses	Units
MET 351, Basic Machinery Systems	5
MET 352, Machinery Systems Calculations	5
MET 355, Oxy-Acetylene Welding and Related Processes	3
OR	
MIT 320, Oxy-Acetylene Welding and Related Processes	1.5
MET 256, Fundamentals of Instruments And Electricity	1.5
MET 257, Fundamentals of Workplace Success	1.5
MET 361, Refrigeration Systems	4
MET 362, Refrigeration Systems Calculations	3
MET 363, Refrigerant Transition and Recovery Processes and Procedures	1.5
MET 364, Electrical Controls	4
MET 255, Machinery Systems Maintenance	1.5
Total Units Required	**28.5-30**

Program Electives

MET 395, 392, 397.

Career Certificate

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

Mechanical-Electrical Technology (MET)

MET 220 Technical Communication (Same as TECH 103) 3 Units

Formerly: MET 67

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 50 with a grade of "C" or better.
General Education: AA/AS D1 and writing competency
36 hours Lecture; 54 hours Laboratory
This course provides applications of writing and speaking skills for the business environment. Each student writes a minimum of 6,000 words, including a final essay exam. Units of instruction include: the process and techniques of technical writing, basic word processor usage, writing and preparing typical job related memos, letters, employment letters, resumes, specifications, procedures, abstracts, summaries, instructions, manuals, requisitions, purchase orders, and other documentation used in industry. An oral report, a formal proposal, and a final written essay will be required.

MET 230 Spa and Pool Technology: Technician I 2 Units

Formerly: MET 90A

Prerequisite: None
36 hours Lecture
This course focuses on identifying problems, terminology, definitions, and the way equipment operates. Technician II curriculum will focus on solving problems.

MET 231 Spa and Pool Technology: Technician II 2 Units

Formerly: MET 90B

Prerequisite: None
36 hours Lecture
This course focuses on problem solving and hands-on activities related to the equipment and chemical maintenance of spas and pools.

MET 255 Machinery Systems Maintenance 1.5 Units

Formerly: MET 65

Prerequisite: None
27 hours Lecture
This course introduces the student to basic maintenance concepts for the basic machinery systems. Units of instruction include coil maintenance, filters management, indoor air quality, lubrication, belts and drives, verifying operation, monitoring equipment and maintenance contracts.

MET 256 Fundamentals of Instruments and Electricity 1.5 Units

Formerly: MET 56

Prerequisite: None
27 hours Lecture
This course introduces the student to the fundamentals of electrical instruments and concepts required in commercial and industrial practice. Units of instruction include: fundamentals of electricity, ohms law, use of voltmeters, ammeters, ohmmeters, series and parallel circuits, wiring diagrams and electro-magnetic theory.

MET 257 Fundamentals of Workplace Success 1.5 Units

Formerly: MET 57

Prerequisite: None
27 hours Lecture
This course provides the student with basic workplace skills needed to enter the workforce as a machinery systems technician. Units of instruction include team building, safety and hazard documentation, materials handling, employment forms, inventory control, conflict resolution, accountability, work ethics, and office procedures and policies.

MET 294 Topics in Mechanical-Electrical Technology .5-4 Units

Formerly: MET 80

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

MET 351 Basic Machinery Systems 5 Units

Formerly: MET 51

Prerequisite: None
Advisory: Completion of or concurrent enrollment in MET 352 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 108 hours Laboratory
This course is designed to introduce the student to the theoretical and practical applications of basic machinery systems utilized in refrigeration, heating, cooling, steam power generation, and the treatment of water for use in machinery systems, potable water and wastewater treatment plants. Additional studies include fundamental laws of heat; theory of refrigeration and refrigerants; installation, operation and testing of refrigeration units; and safe, efficient use of related hand, heat and power tools. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 352 Machinery Systems Calculations 5 Units

Formerly: MET 52

Prerequisite: None
Advisory: Completion of or concurrent enrollment in MET 351.
General Education: AA/AS Area D2
Acceptable for credit: CSU
72 hours Lecture; 54 hours Laboratory
This course focuses on the review of mathematical skills; problem solving using metric (SI) units and English and metric unit conversations; solution of word problems involving length, area, volume, weight, strength of materials, work, power, energy, and efficiencies; exponents, scientific notation and roots; problem solving using graphs and tables; algebraic solution to applied problems; freehand sketching employing multi-view, isometric and oblique drawing methods and lettering and dimensioning. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 355 Oxy-Acetylene Welding and Related Processes 3 Units

Formerly: MET 55A

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides instruction in the theory and practice of braze welding, silver brazing and soft soldering. Units of instruction include related safety procedures and practices, the adhesion theory of filler materials, chemical and physical effects of fluxes and filler materials, oxy-acetylene and air-acetylene equipment usage in the different processes.

MET 361 Refrigeration Systems 4 Units

Formerly: MET 61

Prerequisite: MET 351 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This is a course devoted to the study of residential and commercial refrigeration systems and equipment. Students learn about mechanical compression and absorption refrigeration devices; their operating characteristics, common applications and typical servicing procedures and related safety practices are covered. Hand tools, power tools, and test instruments are used by the student in lab to repair and service refrigeration devices. Students gain additional experience by operating an ammonia refrigeration unit in lab and by analyzing system performance with pressure-enthalpy diagrams. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 362 Refrigeration Systems Calculations 3 Units

Formerly: MET 62

Prerequisite: MET 352 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course focuses on mathematical problems involving English and metric (SI) units concerned with installation, operations, and maintenance of commercial and industrial refrigeration systems. Emphasis will be placed on basic heat transfer, loads, piping, equipment performance, and economic factors. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 363 Refrigerant Transition and Recovery Processes and Procedures 1.5 Units

Formerly: MET 63

Prerequisite: None
Advisory: MET 351 with a grade of "C" or better.
Acceptable for credit: CSU
27 hours Lecture
This course focuses on the recovery and recycling of existing refrigerants, the transition to environmentally safe refrigerants, and the preparation for certification testing in refrigerant handling as mandated by the Clean Air Act, 40 CFR, part 82, subpart F and regulated by the Environmental Protection Agency (EPA). Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 364 Electrical Controls 4 Units

Formerly: MET 64

Prerequisite: MET 351 and 352 with grades of "C" or better.
Advisory: Completion of or concurrent enrollment in MET 361 and 362.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course is an introduction to power and control circuits and devices used with refrigerating, heating, cooling, pumping, water treating and solar heating machinery systems. Units of instruction include a study of electron theory, magnetism, inductions, alternating current, direct current, resistance and capacitance. Practice using electrical meters and test instruments in laboratory classes along with related safety practices will also be covered. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 371 Heating and Power Machinery 4 Units

Formerly: MET 71

Prerequisite: MET 364 with a grade of "C" or better.
Advisory: Concurrent enrollment in MET 372.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides instruction in warm air furnaces, hydronic heating, steam and power plant systems. Instruction includes pumps, pumping head calculations, combustion principles, steam and hot water boilers, warm air furnaces, boiler safety and operating controls, boiler emissions. Laboratory activities include operation, testing, maintenance and troubleshooting of warm air furnaces and steam/hot water heating systems. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 372 Power Machinery, Heating and Air Conditioning Calculations 3 Units

Formerly: MET 72

Prerequisite: MET 361 and 362 with grades of "C" or better.
Advisory: Concurrent enrollment in MET 371.
Acceptable for credit: CSU
54 hours Lecture
This course focuses on mathematical problems involving English and metric (SI) units concerned with installation, operation and maintenance of power machinery, heating and air conditioning systems. Emphasis will be placed on heat transfer, heating/cooling loads, pipe and pump sizing, steam and hot water system performance, psychometrics, and duct sizing calculations. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 373 Piping, Electrical, and Sheet Metal Drafting 4 Units

Formerly: MET 73

Prerequisite: MET 361, 362, and 364 with grades of "C" or better.
Advisory: Concurrent enrollment in MET 371, 372, and 374.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course focuses on the basic drafting practices used in industries related to the Mechanical Electrical Technology curriculum. Units of instruction include interpretation of mechanical-electrical drawings and specifications; practices used in the design of piping, electrical and sheet metal systems; calculation methods used to size pumps and piping systems; freehand sketching techniques; and related safety practices. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 374 Automatic Control Systems I 3 Units

Formerly: MET 74

Prerequisite: MET 364 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the first of two courses (see MET 384) that focus on the study of controls and devices that are used in heating, ventilation, air conditioning, pumping, water treatment, and manufacturing systems. Units of instruction include introduction to control theory, final controls devises, and pneumatic control systems. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 381 Air Conditioning 4 Units

Formerly: MET 81

Prerequisite: MET 371 and 372 with grades of "C" or better.
Advisory: Concurrent enrollment in MET 384.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides instruction in the design, operation, maintenance of commercial and industrial air conditioning systems. Instruction includes study of air distribution, variable air volume systems, refrigeration compressors, absorption air condition systems, helical-rotary and centrifugal water chillers, chilled water systems, thermal storage, cooling towers, and energy management. Students will gain practical experience by operating commercial air conditioning systems. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 382 Air Conditioning Systems Calculations 3 Units

Formerly: MET 82

Prerequisite: MET 372 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course provides an introduction to the use of computer applications in solving problems concerned with the design, installation, and operation of air conditioning systems. Units of instruction include calculating heating and cooling loads, piping, air distribution, equipment selection, psychometric and economic analysis. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 383 Instrumentation 4 Units

Formerly: MET 83

Prerequisite: MET 361 and 362 with grades of "C" or better.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
This course provides instruction in the theory and practice of using instruments for testing and analyzing the operation of refrigerating, air conditioning, mechanical, electrical and building systems. Units of instruction include a study of measurement principles including temperature, humidity, flow, light, sound, velocity, pressure, combustion emissions, air quality, voltage, level, force, and vibration. Laboratory activities will emphasize the practical applications of sensors and measuring instruments. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer

MET 384 Automatic Control Systems II 3 Units

Formerly: MET 84

Prerequisite: MET 374 with a grade of "C" or better.
Advisory: Concurrent enrollment in MET 381.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is the second of two courses (see MET 374) that focus on the study of controls and devices that are used in heating, ventilation, air conditioning, pumping, water treatment, and manufacturing systems. Units of instruction include electronic and direct digital controls, networks, interoperable systems, and programming of controllers. Components of this course may be offered online. Students may be required to have access to a computer and the Internet and have some familiarity with a computer.

MET 385 Water Treatment for Heating and Air Conditioning Equipment 3 Units

Formerly: MET 85

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on basic mechanical system water sides theory of corrosion, scaling, and algae-slime growth-corrosion inhibition, chemicals and feed-bleed-blowdown systems; scaling inhibition, chemicals, and feed-blowdown systems; algae inhibition and chemicals; testing methods, kits, and instruments; and, water quality standards.

MET 386 Air and Water Balance of Mechanical Equipment 3 Units

Formerly: MET 86

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on air and water flow theory; air and water systems and components; air flow measuring instruments, their calibration and use; and, typical water flow balance work.

MET 392 Heat Pump Operation and Maintenance 3 Units

Formerly: MET 92A

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in basic refrigeration and heat pump theory. Heat pump cooling and heating cycles. Heat pump controls, defrost cycles, supplemental heat, and flow control devices.

MET 393 Heat Pump Operation and Maintenance 3 Units

Formerly: MET 92B

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in basic refrigeration and heat pump theory. Heat pump cooling and heating cycles. Heat pump controls, defrost cycles, supplemental heat, and flow control devices.

MET 395 Automatic Dispensing and Vending Machines 3 Units

Formerly: MET 91

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on the study of carbonation and common carbonation processes, post-mix and pre-mix dispensing valves, coin mechanisms, can and bottle vendors, brixing instruments, electrical-electronic components and circuits, mechanical devices and mechanical refrigeration systems of automatic vending and dispensing machines, and operation and maintenance practices. Related safety and sanitary procedures will also be covered.

MET 396 Household Appliance Service 3 Units

Formerly: MET 96A

Prerequisite: None
Advisory: Eligibility for ENGRD 110.
Acceptable for credit: CSU
54 hours Lecture
This course covers career opportunities, customer relations, and related codes of household appliance. Units of instruction include theory of operation and installation of hot water heaters, garbage compactors, garbage disposals, clothes washers, clothes dryers, dishwashers, ranges, ovens, humidifiers, window air conditioners and related safety practices. It is designed for students interested in preparing for employment and certification in the appliance service and repair field.

MET 397 Basic Potable Water and Wastewater Treatment Processes 3 Units

Formerly: MET 93

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course focuses on water resources and their preservation; potable water treatment systems and processes; system components; wastewater treatment systems and processes; related operation and safety practices.

Metals Industry Technology M I T

Associate in Science Degree

Career Certificate

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Career Opportunities

The Metals Industry Technology Department consists of the Metals Fabrication Option which is designed for students interested in pursuing Welder/Fabricator entry-level employment. Students from other areas such as automotive, aeronautics, construction or other mechanical fields may find these courses beneficial when seeking employment.

Recommended High School Preparation

Courses in English, math, physics, geometry, mechanical drawing, metal shop, welding, wood shop.

Metals Fabrication

Required Program	Units
MIT 100, Introduction to Welding	1.5
MIT 310, Print Reading and Sketching for Metal Trades	3
MIT 320, Oxy-Acetylene Welding and Related Processes	1.5
MIT 322, Basic Oxy-Acetylene Welding and Related Processes.	1.5
MIT 326, Advanced Oxy-Acetylene Welding and Related Processes	1.5
MIT 330, Sheet Metal and Light Iron Fabrication	3
MIT 340, Basic Arc Welding and Related Processes	3.5
MIT 342, Advanced Arc Welding and Related Processes	3.5
Total Units Required	**19**

Suggested Electives
MIT 350; TECH 100, 103, 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 reach a 60-unit total.

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

Metals Industry Technology (MIT)

MIT 100 Introduction to Welding 1.5 Units

Formerly: MIT 52

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
This course is an introduction to welding processes, including, print reading, oxy-acetylene welding and cutting, shielded metal arc, gas metal arc, safety and the proper use, care and setup of equipment used in this course. This will be beneficial to the student with limited or no technical knowledge of Metals Industry Technology. This course may be taken three times for credit to build an appropriate skill level. This course requires safety glasses, leather gloves, work shoes, and hearing protection.

MIT 140 Introduction to Basic Gas Metal Arc Welding (MIG) 2 Units

Prerequisite: None
18 hours Lecture; 54 hours Laboratory
This course is an introduction to gas metal arc welding (MIG) and designed to teach the student with little or no MIG welding skills to enter the wire welding field with skill, knowledge, and confidence. Also, it is designed for those wishing to upgrade their welding skills on hard and flux core wire.

MIT 150 Shielded Metal Arc Welding (SMAW) 1.5 Units

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
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 151 Gas Tungsten Arc Welding (GTAW) 1.5 Units

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
This course is focused on the industrial importance of Gas Tungsten Arc Welding and semi-automatic arc welding processes. Safety glasses, leather glasses, work clothing and work shoes are required. This course may be taken three times for credit.

MIT 300 Introduction to Automated Manufacturing 3 Units

Formerly: MIT 50

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to provide introductory level instruction in the concepts, operations, maintenance and practical application of automated manufacturing systems. Instructional components include basic automated concepts; mechanical, electric, hydraulic and pneumatic components; light and other sensor controls in addition to related programming and safety procedures.

MIT 310 Print Reading and Sketching for Metal Trades 2 Units

Formerly: MIT 53

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This course provides instruction in blueprint reading for Welders/Fabricators. Units of instruction include print interpretation, weld symbol interpretation, pictorial sketching, orthographic sketching, pins and fasteners related to industry specifications. This course may be repeated once for credit.

MIT 320 Oxy-Acetylene Welding and Related Processes 1.5 Units

Formerly: MIT 55

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This course provides instruction in the theory and practice of silver brazing and soft soldering. Units of instruction include related safety procedures and practices, the adhesion theory of filler materials, chemical and physical effects of fluxes and filler materials, oxy-acetylene and air-acetylene equipment usage in the different processes. This course may be taken three times for credit to build an appropriate skill level. This course requires safety glasses, leather gloves, work clothing, and work shoes.

MIT 322 Basic Oxy-Acetylene Welding and Related Processes 1.5 Units

Formerly: MIT 56

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This course provides instruction in the theory, application and

practice of basic oxy-acetylene welding and related processes. Units of instruction include related safety procedures, oxy-fuel unit set-up, oxy-fuel, fusion welding of the five basic joints, out-of-position welding and welding equipment care and maintenance. This course may be taken twice for credit.

MIT 326 Advanced Oxy-Acetylene Welding and Related Processes 1.5 Units

Formerly: MIT 57

Prerequisite: Completion of MIT 322.
Acceptable for credit: CSU
18 hours Lecture; 27 hours Laboratory
This course provides instruction in the theory and practice of advanced oxy-acetylene welding and related processes. Units of instruction include: related safety procedures, out-of-position welding, pipe welding, braze welding, machine flame cutting, hand forging, heat treating, case hardening, hard facing and inspection, and testing procedures. Safety glasses, leather gloves, work clothing and work shoes are required. This course may be taken three times for credit.

MIT 330 Sheet Metal and Light Iron Fabrication 3 Units

Formerly: MIT 64

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 90 hours Laboratory
This course is devoted to the study of tools and procedures used in fabricating products made of sheet metal and 'light" iron. Students learn the industrially important skill of converting a print or plan to a fabricated product.

MIT 340 Basic Arc Welding and Related Processes 3.5 Units

Formerly: MIT 65

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 90 hours Laboratory
This course focuses on the industrial importance of the arc welding process. Units of instruction include shop safety, SMAW (stick electrode), and GMAW (short arc) 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 first week of instruction will be permitted to continue in the course. This course may be repeated once for credit.

MIT 342 Advanced Arc Welding and Related Processes 3.5 Units

Formerly: MIT 66

Prerequisite: None
Advisory: MIT 340.
Acceptable for credit: CSU
36 hours Lecture; 90 hours Laboratory
This course focuses on the industrial importance of gas tungsten (TIG) and semi-automatic arc welding process. This course may be repeated once for credit.

MIT 350 Industrial Materials Testing 3 Units

Formerly: MIT 78

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture, 54 hours Laboratory
This course focuses on an introduction to the physical and chemical properties, testing, manufacturing and uses of materials of industry, with special emphasis on ferrous and nonferrous metals, metal alloys, timber, clay products, cementing materials, concrete, paints, adhesive and plastics.

MIT 498 Work Experience in Metals Industry Technology 1-4 Units

Formerly: MIT 98

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
Each student is required to work in a minimum of two libraries. If the student is already working in a library, the current job may be counted as one of the libraries. Credit hours may be earned for three or four units, 60 hours of unpaid work per unit or 75 hours of paid work per unit. In addition, each student will be required to keep a job journal, write a career essay, and prepare two periodical readings (one subject oriented and the other career related). There will also be a midterm and a final examination.

Motorcycle Maintenance Technician MTRCL

Associate in Science Degree

Career Certificate

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Motorcycle Maintenance Technician

Associate in Arts Degree
Career Certificate

Career Opportunities

This Motorcycle Maintenance Technician Associate in Science Degree prepares students to enter the motorcycle maintenance field with all of the necessary skills to perform entry-level work as well as to have a thorough understanding of theory so they can participate in advanced training at the dealer or manufacturer.

Required Program **Units**

MTRCL 100, Introduction to Motorcycles, Motorcycle Design, and Maintenance Theory 5
MTRCL 110, Motorcycle Engine Theory 4
MTRCL 101, Fuel, Lubrication, and Cooling . . . 4
MTRCL 102, Motorcycle Electrical Systems . . . 4
MTRCL 120, Motorcycle Exhaust, Frame, Suspension, Tires, Wheels and Brakes 4
MTRCL 140, Motorcycle Tune-Up and General Service 4
MTRCL 130, Motorcycle Engine Overhaul 3
MTRCL 150, Power Transmission Systems. 4

Total Units Required 32

Suggested Electives

CHEM 330; ET 300, 301, 305; MIT 100; MTRCL 141, 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.

Career Certificate

The Career Certificate 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

Formerly: MTRCL 50

Prerequisite: None
90 hours Lecture
As an introduction to motorcycles, this course offers a view of the history of motorcycles as well as a discussion of modern machines. Further, it gives the student an overview of the theory of operation and design principles involved in motorcycle maintenance.

MTRCL 101 Fuel, Lubrication and Cooling 4 Units

Formerly: MTRCL 54

Prerequisite: None
63 hours Lecture; 27 hours Laboratory
This course covers the principles, theory of operation, design and function of motorcycle fuel, lubrication and cooling systems as well as the inspection, disassembly, cleaning, measuring and rebuilding of the components of those systems. Upon the successful completion of this class, a student should be able to perform preventive maintenance, trouble-shoot discrepancies, repair the system components and assist customers in selecting suitable aftermarket parts in both dealer and independent shop settings.

MTRCL 102 Motorcycle Electrical Systems 4 Units

Formerly: MTRCL 56

Prerequisite: None
63 hours Lecture; 27 hours Laboratory
This course covers the principles of basic electricity including terms, circuits, wiring diagrams and symbols, magnetism and methods of providing electrical energy for motorcycles. Various electrical components of generation, regulation, distribution, control, switching and methods of testing of motorcycle electrical systems will be discussed as well. Further, ignition systems and how they relate to the engine components will be covered.

MTRCL 105 Applied Basic Motorcycle Maintenance 3 Units

Formerly: MTRCL 80

Prerequisite: None
54 hours Lecture
As an introduction to basic motorcycle maintenance, this course gives the students a comprehensive overview of the history of motorcycles, motorcycle safety, the theory of operation of modern motorcycle systems as well as maintenance theory and practical applications of those principles. Upon the successful completion of this course, the student should have an understanding of basic maintenance issues such as selecting the correct fuels, oils and filters, checking wheel alignment, lubrication methods, common modification mistakes as well as general service and maintenance. Safety glasses, ear protection and closed-toe leather shoes are required.

MTRCL 110 Motorcycle Engine Theory 4 Units

Formerly: MTRCL 52

Prerequisite: None
Advisory: MTRCL 100.
63 hours Lecture; 27 hours Laboratory
This course offers a comprehensive view of how two and four-stroke motorcycle engines work through careful discussion of the theory of operation and technical principles involved in converting fuel to motion.

MTRCL 120 Motorcycle Exhaust, Frame, Suspension, Tires, Wheels, and Brakes 4 Units

Formerly: MTRCL 64

Prerequisite: None
63 hours Lecture; 27 hours Laboratory
This course covers the theory, design and function of motorcycle exhaust systems, various frame and suspension designs, tires, cast and spoked wheels, and both disk and drum brakes. Upon the successful completion of this course, a student should be able to perform preventive maintenance, troubleshoot discrepancies, repair the systems and assist customers in selecting suitable aftermarket parts in both a dealer and independent shop setting. Safety glasses, ear protection and closed-toe leather shoes are required.

MTRCL 130 Motorcycle Engine Overhaul 3 Units

Formerly: MTRCL 70

Prerequisite: None
36 hours Lecture; 54 hours Laboratory
This course offers a comprehensive view of the parameters determining the need for overhaul of modern motorcycle engines, the methods and techniques involved and the adjustments and operations check afterwards. Further, it covers the use of overhaul and parts manuals and the logic employed in them. Upon the successful completion of this class, a student should be able to perform a complete overhaul of the various types of modern motorcycle engines including water-cooled, multi-valve engines as well as air-cooled V-twins. The student should be able to provide 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 4 Units

Formerly: MTRCL 66

Prerequisite: None
63 hours Lecture; 27 hours Laboratory
This course covers motorcycle tune-up, general service, ignition and valve adjustment, lubrication and oil and filter changes as well as the special tools required. Further, it covers service and parts books, microfiche and computerized manuals and the logic employed in them. Upon the successful completion of this class, a student should be able to perform virtually all aspects of scheduled maintenance such as tune-ups, valve adjustment, oil changes and lubrication service as well as troubleshoot and repair common maintenance discrepancies. Safety glasses, ear protection and closed-toe shoes are required.

MTRCL 141 Motorcycle Dyno Operation and Data Acquisition 1.5 Units

Formerly: MTRCL 76

Prerequisite: None
18 hours Lecture; 27 hours Laboratory
This is an in-depth course covering motorcycle engine and component theory and function as related to dynamometer operation. Further, it covers using a dyno for data acquisition for successful maintenance discrepancy diagnosis and solution. Various motorcycles will be run on the SCC dyno so students can use the data to trouble-shoot maintenance problems. After the repairs or adjustments, the motorcycles will be run again to measure the results. Required materials for this course include leather closed-two shoes, safety glasses, and ear protection.

MTRCL 150 Power Transmission Systems 4 Units

Formerly: MTRCL 72

Prerequisite: None
63 hours Lecture; 27 hours Laboratory
This course covers motorcycle power transmission systems from the engine crankshaft through the clutch and transmission, and through the final drive system to the rear wheel. Theory of operation including lubrication requirements, gear ratios, design and function of the primary drive, the clutch, the transmission and the final drive will be covered. Clutches, transmissions and drive systems will be removed, disassembled, cleaned, inspected, measured, rebuilt, reinstalled and checked for proper operation.

Music

Associate in Arts Degree, General Music

Associate in Arts Degree, Commercial Music

Commercial Music Performance, Career Certificate

Songwriting and Arranging, Career Certificate

Audio Production, Career Certificate

Music Business Management, Career Certificate

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Music, General

Recommended High School Preparation

Some background in voice or instrument. Ability to read music.

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 urged.

Note: The music courses are divided into four topic areas. They are:

MUFHL, Music Fundamentals/History and Literature

MUP, Music Performance

MUIVI, Instrumental/Voice Instruction

MUSM, Specializations in Music

Required Program	Units
MUFHL 400, Music Theory	4
MUFHL 401, Music Theory	4
MUFHL 410, Advanced Music Theory	4
MUFHL 411, Advanced Music Theory	4
MUFHL 310, Survey of Music History and Literature	3
MUFHL 311, Survey of Music History and Literature	3
MUIVI 345, Beginning Piano	1-2
MUIVI 346, Beginning Piano	1-2
Applied Music (four semesters from one selected field)	4-8
Voice: MUIVI 315, 325, 330 or MUIVI 410	
Brass: MUIVI 441 or MUIVI 410	
Percussion: MUIVI 447 or MUIVI 410 or MUIVI 375	
Strings: MUIVI 443 or MUIVI 410	
Woodwinds: MUIVI 445 or MUIVI 410	
Keyboard: MUIVI 355, 356, 357, 358 or MUP 419 or MUIVI 410	
Music Performance Group	8
Total Units Required	**36-44**

Each semester of attendance, select from one field: (1) Instrumental Major: Concert Band, Symphonic Band, or Jazz Ensemble, (2) Voice Major: College Choir or Vocal Ensemble, (3) Keyboard Major: Jazz Band, Piano Ensemble, or Commercial Music Ensemble.

Associate in Arts (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.

Recommended Course Sequence

First Semester	**Units**
MUFHL 400, Music Theory	4
Performance Group	1-2
Applied Music	1-2
Social Science	3
Language/Rationality	3
MUIVI 345, Beginning Piano	1-2
Electives	0-2
	15

Students also must meet basic skills proficiencies in reading, writing, and mathematics. Check with your SCC counselor for requirements.

Students without keyboard proficiency must take MUIVI 345 and MUIVI 346 during this semester.

Second Semester	**Units**
MUFHL 401, Music Theory	4
Performance Group	1-2
Applied Music	1-2
Social Science	3
Language/Rationality	3
MUIVI 346, Beginning Piano	1-2
Electives	0-2
	15

Students also must meet basic skills proficiencies in reading, writing, and mathematics. Check with your SCC counselor for requirements.

Students without keyboard proficiency must take MUIVI 346 during this semester.

Third Semester	**Units**
MUFHL 410, Advanced Music Theory	4
MUFHL 310, Survey of Music History and Literature	3
Performance Group	1-2
Applied Music	1-2
Natural Science	3
Electives	1-3
	15

Fourth Semester	**Units**
MUFHL 411, Advanced Music Theory	4
MUFHL 311, Survey of Music History and Literature	3
Performance Group	1-2
Applied Music	1-2
Living Skills	1-3
	15

Students also must meet basic skills proficiencies in reading, writing, and mathematics. Check with your SCC Counselor for requirements.

Suggested Electives
ARTH 300, TA 370, 440, PHIL 300 or any music course.

Commercial Music

Associate in Arts Degree
Career Certificate

Career Opportunities

The Commercial Music option includes four areas of emphasis for career preparation:

(1) Performance Emphasis: Designed to prepare students to perform in the styles of popular music most often heard on radio, television and live concert venues.

(2) Songwriting and Arranging Emphasis: 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.

(3) Audio Production Emphasis: Designed as introductory preparation for employment as audio engineers in professional recording studios, smaller electronic oriented demo production studios, and the fast growing area of audio specialist in multi-media post-production for corporate audio-visual departments.

(4) Music Business Management Emphasis: Designed to prepare students who are interested in music, but not as performers, for entry level positions in the music industry such as artist management, music retail, music publishing, talent agent, and concert promotion.

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

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

Performance Emphasis

Required Program	Units
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUIVI 345, Beginning Piano	2
MUFHL 400, Music Theory	4
MUFHL 401, Music Theory	4
MUSM 110, The Business of Music	3
MUSM 330, Introduction to MIDI	2
MUSM 331, Introduction to MIDI	2
MUSM 342, Recording Studio Techniques	3
MUIVI 410, Applied Music	1
MUIVI 380, Improvisation Workshop	2
Performance Class (MUP 315, 325, 335, 340, 355, 402, 424)	1-2
Performance Emphasis Electives	5
Total Units Required	**35-36**

Performance Emphasis - Select five (5) units from the following: MUFHL 410-411, Advanced Music Theory (4-4); MUFHL 430/431, Commercial Harmony and Arranging (2-2); MUFHL 331, World Music (3); MUFHL 310-311, Survey of Music History and Literature (3); MUSM 332-333, Introduction to MIDI (2-2); MUSM 344-350-352, Recording Studio Techniques (3-3-3); MUSM 320-321, Songwriting (3-3); MUIVI 315, 325, 330, Voice Class (1-2); MUIVI 355-356, Intermediate Piano (2-2); MUIVI 365, Popular Piano Styles (1-1-1-1).

Songwriting/Arranging Emphasis

Associate in Arts Degree
Career Certificate

Required Program	Units
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUFHL 400, Music Theory	4
MUFHL 401, Music Theory	4
MUIVI 345, Beginning Piano	2
MUSM 110, The Business of Music	3
MUSM 320, Contemporary Songwriting	3
MUSM 321, Advanced Songwriting	3
MUSM 330, Introduction to MIDI	2
MUSM 331, Introduction to MIDI	2
MUSM 342, Recording Studio Techniques	3
Songwriting/Arranging Emphasis Electives	5
Total Units Required	**37**

Songwriting/Arranging Emphasis - Select five (5) units from the following: MUFHL 410-411, Advanced Music Theory (4-4); MUFHL 430/431, Commercial Harmony and Arranging (2-2); MUSM 332-333, MIDI Techniques (2-2); MUSM 344-350-352, Recording Studio Techniques (3-3-3); MUP 424, Commercial Music Ensemble (2); MUFHL 331, World Music (3); MUFHL 315, Jazz History (3); MUFHL 305, Music Appreciation (3); MUFHL 310-311, Music History and Literature (3-3); ENGCW 400, Creative Writing (3); ENGLT 494, Studies in Literature (3); ENGLT 303, Short Story (3).

Audio Production Emphasis

Associate in Arts Degree
Career Certificate

Required Program	Units
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUSM 342, Recording Studio Techniques	3
MUSM 344, Recording Studio Techniques	3
MUSM 350, Recording Studio Techniques	3
MUSM 352, Recording Studio Techniques	3
MUSM 354, Recording Sessions Workshop	2, 2
MUSM 360, Advanced Analog and Digital Audio Production	2.5
MUSM 110, The Business of Music	3
Audio Production Emphasis Electives	7
Total Units Required	**34.5**

Audio Production Emphasis - Select seven (7) units from the following: MUIVI 345, 300; MUFHL 305, 331, 310, 311, 315; MUSM 340, 354 Recording Sessions Workshops (2) (limited to four semesters), MUSM 330, 331, 332, 333; ET 300, 301, 305, 320.

Associate in Arts Degree (A.A.)

Music Business Management Emphasis

Associate in Arts Degree
Career Certificate

Required Program	Units
MUFHL 320, Exploring Music	3
MUFHL 309, Introduction to American Popular Music	3
MUSM 110, The Business of Music	3
BUS 300, Introduction to Business	3
CISC 300, Computer Familiarization	1
MKT 316, Public Relations	3
MUSM 342, Recording Studio Techniques	3
MUFHL 305, Music Appreciation	3
MUFHL 331, World Music	3
Music Business Management Emphasis Electives	12
Total Units Required	**37**

Music Business Management Emphasis - Select 12 units from the following, including at least one class from each group:

Business Management: CISA 305, 340; MGMT 170; ACCT 101; TA 440; GCOM 310.

Retail Marketing: MKT 300, MKT 310, MKT 314.

Communication Skills: COMM 302, COMM 343; MGMT 372; PSYC 358.

Music

Note: The music courses are divided into four topic areas. They are:
MUFHL, Music Fundamentals/History and Literature
MUP, Music Performance
MUIVI, Instrumental/Voice Instruction
MUSM, Specializations in Music

Music Fundamentals, History & Lit (MUFHL)

MUFHL 305 Music Appreciation 3 Units

Formerly: MUFHL 7

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to classical music styles and composers. It includes a study of the basic elements of music (melody, harmony, form, etc.), musical instruments, a historical survey of classical music and some techniques for listening and enjoying music. No previous musical experience is required.

MUFHL 309 Introduction to American Popular Music 3 Units

Formerly: MUFHL 13

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the history of popular music in America and the diversity of current styles including classic rock, hard rock, country, jazz, Rhythm and Blues, blues, Latin, rap, reggae, alternative, folk, techno, and others. The emphasis of the course is on listening to music. The course also explores the relationship of popular music to society and other media art forms such as music videos and film.

MUFHL 310 Survey of Music History and Literature 3 Units

Formerly: MUFHL 10

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC (MUFHL 310 or 481, maximum one course)/CSU
54 hours Lecture
This course is a an indepth study of Western music from antiquity through the Baroque period (c. 1750). It meets the requirement for music majors, CSUS humanities requirements, and music minors requirements.

MUFHL 311 Survey of Music History and Literature 3 Units

Formerly: MUFHL 11

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
Acceptable for credit: UC (MUFHL 311 or 482, maximum one course)/CSU
54 hours Lecture
This course is an indepth study of Western music from Haydn and Mozart (late 18th century) to music of today. It meets the requirement for music majors and minors and CSUS humanities requirements.

MUFHL 315 Jazz History 3 Units

Formerly: MUFHL 12

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to the rich history of jazz and related styles including blues, Dixieland big band, bebop, cool jazz, jazz-rock fusion, avant-garde, popular jazz, and many others. The emphasis of the course is on listening to music. The course also explores past and current trends in the relationship of jazz to popular styles such as Rhythm and Blues, hip-hop, alternative, and others. Current and historical cultural influences from African-, European-.and Latin-American sources and their effect on jazz styles are identified and compared.

MUFHL 320 Exploring Music 3 Units

Formerly: MUFHL 1

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the basics of music, including rhythmic and pitch reading, writing, and playing scales and chords and a look at small song forms. It is recommended as a general humanities class, to those majoring in audio engineering and to those music majors who have not had sufficient preparation for MUFHL 400. It is also recommended for those interested in teaching children and students registered in beginning instrumental and vocal classes.

MUFHL 321 Basic Musicianship 3 Units

Formerly: MUFHL 2

Prerequisite: Successful completion of MUFHL 320 with a grade of "C" or better and ability to play a musical instrument.
Acceptable for credit: UC/CSU
54 hours Lecture
This course concentrates on reading music on any instrument, sight singing, ear training and rhythmic reading. It is recommended for all students wishing to improve music-reading skills.

MUFHL 331 World Music: Africa, Europe, and the Middle East **3 Units**

Formerly: MUFHL 9

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to traditional folk, dance, devotional and contemporary popular music from Africa, Europe and the Middle East. In many parts of the world, music is the conscience of the people and has played a dynamic role in reflecting the social issues and lifestyles that people have lived through in the past and in the present. It has been a culturally binding force in expressing the history, myth, tradition and celebration of many diverse cultures.

MUFHL 332 World Music: Latin and North American, Caribbean, India, Asia and Pacific **3 Units**

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
54 hours Lecture
MUFHL 332 is a study of the music and culture of Latin and North America, the Caribbean, India and Asia. It will focus on how different societies have used music to process and celebrate the cycles of life such as birth, coming of age, marriage and death. Many traditional cultures also have music and ceremonies to acknowledge the cycles of seasons throughout each year. Songs often contain the collective memory of the history and accomplishments of the ancestors. Many refer to social concerns and patterns of injustice that people have endured, often dignifying these experiences through music.

MUFHL 400 Music Theory **4 Units**

Formerly: MUFHL 3A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture; 36 hours Laboratory
This course is a study of fundamental music theory correlating part-writing, dictation, keyboard harmony and sight singing. MUFHL 400 is required for music majors and satisfies CSUS Music minor requirements.

MUFHL 401 Music Theory **4 Units**

Formerly: MUFHL 3B

Prerequisite: MUFHL 400.
Acceptable for credit: UC/CSU
72 hours Lecture; 36 hours Laboratory
This course is a study of intermediate level harmony (triads, seventh chords, secondary dominants and modulation), part writing and small forms in classical and commercial music. It includes the continued development of keyboard, dictation, and sight-singing skills. Short composition assignments are also included.

MUFHL 410 Advanced Music Theory **4 Units**

Formerly: MUFHL 4A

Prerequisite: MUFHL 401.
Acceptable for credit: UC/CSU
72 hours Lecture; 36 hours Laboratory
This course is a study of advanced level, chromatic harmony, (secondary dominants and leading tone sevenths, borrowed Neapolitan and augmented 6th chords) and small instrumental and vocal forms in classical and commercial styles. It includes the continued development of keyboard, dictation and sight-singing skills. Short composition assignments are also included

MUFHL 411 Advanced Music Theory **4 Units**

Formerly: MUFHL 4B

Prerequisite: MUFHL 410.
Acceptable for credit: UC/CSU
72 hours Lecture; 36 hours Laboratory
This course is a study of more advanced chromatic harmony, extended chords (9ths, 11ths, and 13ths), and the 20th Century techniques such as quarter harmony and synthetic scales. It includes the continued development of keyboard, dictation, and sight-singing skills. Short composition assignments are also included.

MUFHL 430 Commercial Harmony and Arranging **2 Units**

Formerly: MUFHL 5A

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course introduces students to the study and application of practical harmony and arranging using a variety of commercial styles (for example, pop, jazz, rock, salsa, and fusion).

MUFHL 431 Commercial Harmony and Arranging **2 Units**

Formerly: MUFHL 5B

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course provides students with a more advanced capability with practical harmony and arranging using a variety of commercial styles (for example, pop, jazz, rock, salsa, and fusion).

MUFHL 481 Survey of Music History and Literature - Honors **3 Units**

Formerly: MUFHL 10H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area C
Acceptable for credit: UC (MUFHL 310 or 481, maximum one course)/CSU
54 hours Lecture
This course is an enriched MUFHL 310 course, which includes the study of Western music from antiquity through the Baroque period (c. 1750). It meets the requirement for music majors and minors and CSUS humanities requirements. This honors section leads the student through an intensive and scholarly approach to the subject matter in a seminar environment and uses an intensive instructional methodology designed to challenge motivated students.

MUFHL 482 Survey of Music History and Literature - Honors **3 Units**

Formerly: MUFHL 11H

Prerequisite: Eligibility for ENGWR 300 or 3.0 GPA.
General Education: AA/AS Area C
Acceptable for credit: UC (MUFHL 311 or 482, maximum one course)/CSU
54 hours Lecture
This course is a survey of Western classical music from the time of Haydn and Mozart (late 18th century) to the present. Students will use listening exercises, source readings, and group projects to study the development of classical music in historical context. It meets the requirement for music majors and minors and CSUS humanities requirements. This honors section uses an intensive instructional methodology, designed to challenge motivated students.

Instrumental/Voice Instruction (MUIVI)

MUIVI 300 Beginning Instruments **1-2 Units**

Formerly: MUIVI 40

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is a beginning-level course for students who wish to study brass, woodwind, string, and/or percussion instruments. Students are given instruction by a specialist in the student's selected area of study. Topics of study will include technique, repertoire, instrument care and maintenance, and performance. The course may be taken four times for credit.

MUIVI 302 Introduction to the Synthesizer **2 Units**

Formerly: MUIVI 37

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
The musical and theoretical aspects of the synthesizer will be presented to students interested in expanding their knowledge of electronic music.

MUIVI 315 Voice Class **1-2 Units**

Formerly: MUIVI 22A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is a study of the fundamentals of voice production. The course may be taken twice for credit. Concert attendance is required.

MUIVI 325 Voice Class, Intermediate **1-2 Units**

Formerly: MUIVI 23A

Prerequisite: MUIVI 315 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
Students study and perform vocal exercises and analyze vocal music literature for the development of efficient singing techniques. Performance of vocal music is emphasized. Students are required to perform in a recital at the end of the semester.

MUIVI 330 Advanced Voice **1-2 Units**

Formerly: MUIVI 24

Prerequisite: Successful completion of MUIVI 325 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course focuses on the development of the voice and vocal repertoire for advanced vocal students. The music literature includes classical, sacred songs, musical theatre, pop, or jazz. All students will perform as soloists in class and in vocal recitals open to the public. The course may be taken twice for credit.

MUIVI 345 Beginning Piano **1-2 Units**

Formerly: MUIVI 30A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is an introduction to basic piano playing and it is required for all general and commercial music majors. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 346 Beginning Piano **1-2 Units**

Formerly: MUIVI 30B

Prerequisite: Successful completion of MUIVI 345 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course continues the work begun in MUIVI 345. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 355 Intermediate Piano **1-2 Units**

Formerly: MUIVI 31A

Prerequisite: Successful completion of MUIVI 346 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is an intermediate study of piano designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 356 Intermediate Piano 1-2 Units
Formerly: MUIVI 31B

Prerequisite: Successful completion of MUIVI 355 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is an intermediate study of piano, a continuation of the work begun in MUIVI 355, designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 357 Intermediate Piano 1-2 Units
Formerly: MUIVI 31C

Prerequisite: Successful completion of MUIVI 356 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is an intermediate study of piano, a continuation of the work begun in MUIVI 356, designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 358 Intermediate Piano 1-2 Units
Formerly: MUIVI 31D

Prerequisite: Successful completion of MUIVI 357 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is an intermediate study of piano, a continuation of the work begun in MUIVI 357, designed for both the music and non-music major. Training includes technique and repertoire for those students who have acquired a basic knowledge of the piano. A minimum of two hours a week outside practice is required for the two-unit option.

MUIVI 365 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36A

Prerequisite: Successful completion of MUIVI 355 with a grade of "C" or better or equivalent piano skills.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music learning lab is needed for the two-unit option.

MUIVI 366 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36B

Prerequisite: Success completion of MUIVI 365 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music-learning lab is needed for the two-unit option.

MUIVI 367 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36C

Prerequisite: Successful completion of MUIVI 366 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music learning lab is needed for the two-unit option.

MUIVI 368 Popular Piano Styles 1-2 Units
Formerly: MUIVI 36D

Prerequisite: Successful completion of MUIVI 367 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This is an intermediate level course in popular piano styles and techniques. Students will learn how to harmonize, solo, improvise and accompany others in blues, rock, jazz, country, R & B, and Latin styles. A minimum of two hours a week in the music learning lab is needed for the two-unit option.

MUIVI 370 Beginning Guitar 2 Units
Formerly: MUIVI 42A

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 18 hours Laboratory
This is a beginning-level course designed to familiarize students with the techniques and repertoire of the guitar. Students learn to play the instrument through the use of technical exercises and reading music notation. Simple chord progressions with both strumming and finger-style techniques will be covered. This class may be taken twice for credit.

MUIVI 371 Intermediate Guitar 2 Units
Formerly:
MUIVI 372, MUIVI 42B

Prerequisite: Successful completion of MUIVI 370 with a grade of "C" or better or by audition.
Acceptable for credit: UC/CSU
36 hours Lecture; 18 hours Laboratory
This course is designed to increase repertoire, develop technical skills, and improve sight-reading ability. In addition, ensemble playing will be emphasized and finger board theory and harmony will be explored. This course may be taken four times for credit.

MUIVI 373 Popular Electric Bass Styles 1 Unit
Formerly: MUIVI 44

Advisory: Ability to read music and play bass at an elementary level.
Acceptable for credit: UC/CSU
18 hours Lecture; 18 hours Laboratory
This course is an introduction to the elements of contemporary electric bass styles, including swing, blues, funk and Latin. This course may be taken four times for credit.

MUIVI 375 Popular Electric Guitar Styles 1 Unit
Formerly: MUIVI 45

Prerequisite: MUIVI 370 with a grade of "C" or better.
Acceptable for credit: UC/CSU
18 hours Lecture; 18 hours Laboratory
This course introduces electric guitar techniques in several popular music styles: rock, blues, funk, jazz, country, and fusion. Both lead and rhythm guitar skills will be developed with an emphasis on improvisation and fingerboard harmony. This course may be taken four times for credit.

MUIVI 380 Improvisation Workshop 2 Units
Formerly: MUIVI 35A

Prerequisite: Ability to plan a musical instrument.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course is designed to give students an introduction to improvising in a variety of styles. Students will learn about basic and materials and song forms needed to improvise. Students will gain practical experience playing with others.

MUIVI 381 Improvisation Workshop 2 Units
Formerly: MUIVI 35B

Prerequisite: Successful completion of MUIVI 380 with a grade of "C" or better.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course continues work started in MUIVI 380. Students will learn about intermediate-level scale and chord materials and song forms needed to improvise. Students will gain practical experience playing with others.

MUIVI 382 Improvisation Workshop 2 Units
Formerly: MUIVI 35C

Prerequisite: Successful completion of MUIVI 381 with a grade of "C" or better.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course is a more advanced study of improvisational techniques. Students will learn about more complex scale and chord materials and song forms needed to improvise and will gain practical experience playing with others.

MUIVI 383 Improvisation Workshop 2 Units
Formerly: MUIVI 35D

Prerequisite: Successful completion of MUIVI 382 with a grade of "C" or better.
Acceptable for credit: UC/CSU
27 hours Lecture; 27 hours Laboratory
This course is a more advanced study of improvisational techniques. Students will learn about more complex scale and chord materials and song forms needed to improvise and will gain practical experience playing with others.

MUIVI 405 Jazz & Pop Styles on Drum Set 1 Unit
Formerly: MUIVI 46

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18 hours Laboratory
This course is an introduction to drumset skills and various jazz and pop styles: rock, jazz, fusion, soul, Rhythm and Blues, Latin, Brazilian, Reggae, and African. Big band jazz styles are included. This course may be taken four times for credit.

MUIVI 410 Applied Music 1 Unit
Formerly: MUIVI 38

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture
This course involves off-campus instrumental or vocal study requiring a minimum of 1/2 hour per week of individual study with a private instructor (at student expense) for a minimum of eighteen weeks. The course meets one hour per week on campus for students to practice performing and to discuss topics related to performance. The course may be repeated for a maximum of four units credit.

MUIVI 441 Brass Instruction 1-2 Units
Formerly: MUIVI 26

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is for brass players at the intermediate level. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. The course may be taken four times for credit on any one instrument.

MUIVI 443 String Instruction 1-2 Units
Formerly: MUIVI 28

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is for string players at the intermediate level. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. The course may be taken four times for credit on any one instrument.

MUIVI 445 Woodwind Instruction 1-2 Units
Formerly: MUIVI 29

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is recommended for woodwind players at the intermediate level. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. The course may be taken four times for credit on any one instrument.

MUIVI 447 Percussion Instruction 1-2 Units
Formerly: MUIVI 27

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is recommended to students who play percussion instruments. Students will be placed on individualized instructional plans with assignments appropriate to their level of ability. The course may be taken four times for credit on any one instrument.

Music Performance (MUP)

MUP 315 Orchestra 1-2 Units
Formerly: MUP 13

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course is a practical experience in the performance of orchestra music. The course may be taken four times for credit.

MUP 325 Jazz Band 1-2 Units
Formerly: MUP 14

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
The course includes the study and performance of jazz band routines with emphasis on performance for special arrangements. The course may be taken four times for credit.

MUP 335 Concert Band 1 Unit
Formerly: MUP 16

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Laboratory
Students study and perform concert band literature covering a wide variety of styles, including classical, popular, Broadway, and jazz. Instructional assistants, with specialties in brass, woodwinds, and percussion, are available weekly during rehearsal for coaching. The course is open to all students and may be taken four times for credit.

MUP 340 Symphonic Band 2 Units
Formerly: MUP 17

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
Study and performance of symphonic band music are emphasized. The course may be taken four times for credit.

MUP 355 College Choir 1-2 Units
Formerly: MUP 19

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
The study and performance of choral music are emphasized. The course is open to all qualified students and may be taken four times for credit.

MUP 370 Rehearsal and Performance - .5-3 Units
Musical Ensemble
(Same as TA 466)
Formerly: MUP 5

Prerequisite: Students are selected through audition as singers and instrumentalists.
Acceptable for credit: UC/CSU
27-162 hours Laboratory
This course is open to students performing in theatrical musical productions. The course requires 27 hours of laboratory for each half unit of credit. This course may be taken up to three units maximum.

MUP 402 Vocal Ensemble 1-2 Units
Formerly: MUP 20

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course includes the rehearsal and performance of vocal ensemble music covering a wide variety of styles. The course may be taken four times for credit.

MUP 411 Woodwind Ensemble 1-2 Units
Formerly: MUP 45

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course includes the rehearsal and performance of ensemble music for woodwinds. The course may be taken four times for credit.

MUP 413 Percussion Ensemble 1-2 Units
Formerly: MUP 46

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
The course includes the rehearsal and performance of ensemble music for percussion. The course may be taken four times for credit.

MUP 415 String Ensemble 1-2 Units
Formerly: MUP 47

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course includes the rehearsal and performance of music for guitar and/or string ensembles. The course may be taken four times for credit.

MUP 417 Brass Ensemble 1-2 Units
Formerly: MUP 44

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course includes the rehearsal and performance of ensemble music for brass. The course may be taken four times for credit.

MUP 419 Piano Ensemble 1-2 Units
Formerly: MUP 32

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course includes the rehearsal and performance of ensemble music for piano. The course may be taken four times for credit.

MUP 422 Special Ensemble Participation .5-2 Units
Formerly: MUP 43

Prerequisite: None
Acceptable for credit: UC/CSU
108 hours Laboratory
This course is open to all students who sing or play musical instruments. Instrumentation of groups will vary, including jazz combo, piano quintet, guitar ensemble, and related music as well as choral groups. The course may be taken four times for a maximum of eight units.

MUP 424 Commercial Music Ensemble 2 Units
Formerly: MUP 40

Prerequisite: Audition required before students may enroll in the class.
Audition: Ability to play an instrument or sing at the intermediate level.
Acceptable for credit: UC/CSU
36 hours Lecture; 36 hours Laboratory
This course includes the rehearsal and performance of contemporary pop and commercial styles: jazz and rock fusion, rhythm and blues, soul, folk, urban styles, country, and Latin. This course may be taken four times for credit.

MUP 426 World Music Ensemble 1 Unit
Formerly: MUP 42

Prerequisite: None
Acceptable for credit: UC/CSU
18 hours Lecture; 18 hours Laboratory
This course explores the performance of selected musical styles of different world cultures, such as Celtic, European, Asian, African, Latin American, Native American, Middle Eastern and combinations thereof. This class accommodates students of various instrumentation, music backgrounds and competence. Performance is not required, but is encouraged. The course may be taken four times for credit.

Specializations in Music (MUSM)

MUSM 110 The Business of Music 3 Units
Formerly: MUSM 50A

Prerequisite: None
54 hours Lecture
This course covers music in the marketplace, including the processes of promotion, publicity, management, touring, recording, contracts, accounting practices, and copyrights.

MUSM 115 The Development and Management of an Independent Record Label 3 Units

Prerequisite: MUSM 110 with a grade of "C" or better.
54 hours Lecture
This course would provide students with the opportunity and learning environment to participate in the creation and management of a music recording label to run within the college, "Diversity Records". Students would work in project teams on all the different phases and aspects of such an endeavor, including legalities, copyrights, defining the roles of each in-house department, developing marketing strategies, CD production, artwork, liner notes, packaging, distribution, consumer surveys and accounting practices.

MUSM 306 Live Sound Reinforcement 3 Units
Formerly: MUSM 60

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
The course presents an introduction to live sound mixing directed toward employment in the sound reinforcement industry and operating sound systems in church. Students will develop skills in operating mixing consoles, speaker placement, microphone techniques, room equalization, reverb, effects and practical techniques for getting the best concert sound. Either this class or MUSM 342 may be used as the prerequisite for MUSM 347.

MUSM 315 Careers in Music 1 Unit
Formerly: MUSM 52

Prerequisite: None
18 hours Lecture
The course introduces the student to business opportunities, responsibilities, and jobs related to the music business and technology. Students will research areas of interest: recording and performance, manufacturing, wholesaling, retailing, publishing, copyrighting; agents and managers, songwriting, arranging, producing, critiquing, promotion, and education.

MUSM 320 Contemporary Songwriting 3 Units
Formerly: MUSM 51A

Prerequisite: Eligibility for ENGWR 100 or ESLW 320.
Acceptable for credit: CSU
54 hours Lecture
This course covers the process of writing popular songs, including writing lyrics, designing instrumental and vocal arrangements, studying melodic and harmonic skills, learning popular song forms, analyzing musical styles, and creating lead sheets.

MUSM 321 Contemporary Songwriting 3 Units
Formerly: MUSM 51B

Prerequisite: MUSM 320.
Acceptable for credit: CSU
54 hours Lecture
This course covers advanced processes of popular songwriting, including production and song evaluation, lyrical interpretation, publishing songs, and the songwriters' marketing system.

MUSM 322 Introduction to Film Music 3 Units
Prerequisite: MUFHL 401 with a grade of "C" or better.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction into the different aspects of writing and producing music for film and television. Students will explore the mechanics of putting music to film and video, compositional techniques and the history of musical styles in film. Students will learn about finding work in this field and gain hands-on experience by completing a creative project.

MUSM 330 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62A

Prerequisite: None
Advisory: Successful completion of MUFHL 320 or MUIVI 345 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This is an introduction course to the fields of music technology and desktop music production. Students will utilize contemporary computer, software, and electronic instrument technology to create music of diverse styles and genres.

MUSM 331 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62B

Prerequisite: Successful completion of MUSM 330 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This course builds on skills learned in MUSM 330 and concentrates on more advanced electronic arranging techniques using computers, synthesizers and music notation software. Through a series of MIDI projects, students learn how various instruments are combined and mixed to create demo tapes in various styles of music.

MUSM 332 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62C

Prerequisite: Successful completion of MUSM 331 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This course builds on skills learned in MUSM 331 and concentrates on more advanced electronic arranging techniques using small MIDI recording studio. Through a series of MIDI projects, students learn electronic orchestration in various styles of music.

MUSM 333 Introduction to MIDI: Musical Instrument Digital Interface 2.5 Units
Formerly: MUSM 62D

Prerequisite: Successful completion of MUSM 332 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This course will teach students to create musical soundtracks at MIDI workstations for synchronization to video, presentation software and multimedia projects using film scoring techniques, editing software for soundtracks and the use of SMPTE time code to lock video editing machines and MIDI music compositions.

MUSM 340 Introduction To Desktop Audio 1 Unit
Formerly: MUSM 40

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 18 hours Laboratory
This course covers basic audio techniques used at computer workstations for the creation of music and dialog soundtracks for multimedia and the internet. Some of the areas covered include acoustics, microphone techniques, desktop multimedia, Internet and desktop video presentations.

MUSM 342 Recording Studio Techniques 3 Units
Formerly: MUSM 41A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area C.
Acceptable for credit: CSU
54 hours Lecture
This course is an introduction to audio engineering in the recording studio, including multi-track recording, microphone selection and use, mixing console design, outboard signal processing, and multi-track demo production. MUSM 342 is the first semester course in the audio production degree program and may be taken twice for credit.

MUSM 344 Recording Studio Techniques 3 Units
Formerly: MUSM 41B

Prerequisite: MUSM 342 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This lecture and hands-on lab class builds on topics covered in MUSM 342. It uses 8-track recording techniques in the ADAT digital 8-track cassette format. Advanced microphone techniques, mixing, monitoring, audio measurement and light repairs are covered. Students engineer live studio recordings.

MUSM 350 Recording Studio Techniques 3 Units

Formerly: MUSM 41C

Prerequisite: MUSM 344 with a grade of "C " or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a lecture/lab class in 24-track analog recording studio equipment and operations. Topics of study will be the operation of all equipment used in the SCC control room including the recording console, console automation, 24-track analog tape machine and a wide variety of outboard equipment used in studio recording. Heavy emphasis is placed on studio signal flow.

MUSM 352 Recording Studio Techniques 3 Units

Formerly: MUSM 41D

Prerequisite: MUSM 350 with a grade of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a lecture/lab class in audio post-production. Students will learn studio methods in analog and digital formats, digital audio computer workstation editing techniques, Digidesign Pro Tools software, SMPTE time code for synchronizing professional video decks to Pro Tools and production techniques for adding music, dialog and sound effects to video.

MUSM 354 Recording Sessions Workshop 2 Units

Formerly: MUSM 42

Prerequisite: MUSM 344 and MUSM 350 with grades of "C" or better or concurrent enrollment in MUSM 350.
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This class provides practical hands-on recording session experience in all styles of music for second year recording students in the commercial music program. Students will 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 class must be taken twice for the Audio Production degree. This class may be taken four times for credit.

MUSM 360 Advanced Analog and Digital Audio Production 2.5 Units

Formerly: MUSM 43

Prerequisite: MUSM 354, 350, and 352 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
Students will be performing advanced analog recording and automated mixing projects using the school's analog recording studio; digital recording and mixing projects using a MacG3/Digidesign 001 workstation; adding sound to television commercials, animated films and documentaries; and creating audio content for the internet and for the gaming industry. Students will also learn to create and burn Red Book Standard CD Masters and Masterlist CD software. A field trip to a postproduction facility may be included. This course may be taken twice for credit.

MUSM 362 Advanced Studio Mixdown Techniques 2.5 Units

Prerequisite: MUSM 350 and MUSM 352 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 36 hours Laboratory
This course will instruct 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 will be investigated. Student's lab work will regularly be presented in class for critical evaluation. On a number of occasions outside professionals in the field will be invited to speak and demonstrate their techniques to the class. A routine component of the class will be exercises to develop "Critical Listening" skills in the students

MUSM 498 Work Experience in Musical Specializations in Music 1-4 Units

Formerly: MUSM 48

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
This course involves 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; and, 75 or 60 hours of related work experience for each additional unit. The course may be repeated when there is new or expanded learning on the job.

Nursing, A.D.N. NURSE

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

This program prepares the student for employment as an entry-level staff nurse in hospitals, doctors' offices, skilled nursing or extended care facilities, surgery centers, ambulatory care settings, occupational health and other related agencies. Registered nurses provide nursing care to clients and groups of clients throughout the lifespan. They have many responsibilities from direct patient care to leadership roles, depending on the specific setting in which they are working. Program graduates are eligible to apply for the examination given by the National Council Licensure Examination for Registered Nurses.

Recommended High School Preparation

College preparatory courses including algebra, biology, chemistry and physiology. A chemistry course with laboratory experience in a college or university with a grade of "C" or better is required as prerequisite to the basic science courses.

Program Information

The Associate in Science Degree Program of Nursing at Sacramento City College is approved by the California Board of Registered Nursing. Students enrolled in this program are required to complete a combination of general education, science, and nursing education courses with related clinical experiences in cooperating local hospitals. The complete program is four semesters and two summer sessions in length-80-82 units total.

In addition to the expenses as regularly enrolled students-tuition, 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 examination and required immunizations 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 and concentrated course of study. In order to ensure academic success and to protect students' health, outside employment is not advisable.

Additional Information

Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program. For information call (916) 558-2271 or visit the SCC Web Site at http://www.scc.losrios.edu.

Enrollment Eligibility

Completion of BIOL 430 and BIOL 431 (Anatomy and Physiology) and BIOL 440 (Microbiology) with a cumulative GPA of 3.0 or better.

Completion of FCS 340 (Nutrition), FCS 324 (Human Development: A Life Span), PSYC 300 (General Principles), and ENGWR 300 with a cumulative GPA of 2.5 or better.

Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA degree or higher.

Enrollment Process:

1. Applications for enrollment and official transcripts supporting completion of prerequisite courses must be submitted to the Science and Allied Health Division by April 15th for the Fall semester enrollment and October 15th for the Spring semester enrollment.
2. Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not enrolled will be considered alternates. One-third of the class will be randomly selected from the eligible applicants who were alternates from the previous semester. Two-thirds of the class will be selected from all eligible applicants.

Required Program

Nursing Courses	**Units**
First Semester -	
NURSE 405, Fundamentals of Nursing	10.5
Second Semester-	
NURSE 415, Nursing and Health Maintenance During the Adult Years	11.0
Third Semester -	
NURSE 425, Nursing in Complex Health Problems	11.0
Fourth Semester -	
NURSE 435, Complex and Multiple Patient Care	10.0
NURSE 445, Clinical Seminar	0.5
Subtotal	**43**

General Education and Science Courses Required for the Nursing Program

	Units
ENGWR 300, College Composition	3
COMM 301, Public Speaking, OR	
COMM 331, Group Discussion	3
PSYC 300, General Principles	3
SOC 300, Introductory Sociology, OR	
ANTH 310, Cultural Anthropology	3
FCS 324, Human Development	3
FCS 340, Nutrition	3
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
BIOL 440, General Microbiology	4
Subtotal	**32**
Total Program Units	**75**

All Nursing Students must meet graduation requirements for the Associate Degree which will be obtained by completing the required courses listed above plus the general education requirements.

NOTE:

1. Nursing courses must be taken in sequence.
2. Graduation requirements may be taken before entering the nursing program or concurrently. A grade of "C" or better is mandatory in each course in the Required Program above for progression in the program and for recommendation for application for the licensing examination. If the grade for the performance in the clinical area is unsatisfactory, the semester grade will be "F" irrespective of achievement on paper and pencil tests. Students who need tutoring may enroll in HSER 1000.
3. In order to obtain a R.N. License as a graduate, students must be degreed by the conclusion of NURSE 435.

Enrollment Options for Licensed Vocational Nurses

LVNs seeking entry are subject to space availability. These applicants have four options to prepare for the California licensure examination for Registered Nurses.

1. 30 unit option: The LVN must complete physiology and microbiology prior to entering the second year nursing courses, NURSE 425 and NURSE 435. This option does not lead to an Associate Degree in Nursing.
2. LVNs who seek advanced placement by challenge examinations (15 units are the maximum number allowed) in the ADN program must meet all program requirements for science, communication and Associate in Science Degree.
3. LVNs who wish to pursue the Associate in Science Degree in Nursing through the generic program must meet all requirements for admission.
4. LVNs seeking career mobility option must meet all the program requirements for science, communication and Associate in Science degree and complete NURSE 305, 425, 435, and 445.

Baccalaureate Degree

Since the various Schools of Nursing are constantly changing 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.

Nursing (NURSE)
Associate Degree Nursing

NURSE 120 Preparing for a Nursing Career 1 Unit
Formerly: NURSE 90

Prerequisite: None
18 hours Lecture
This course presents the role of the Associate Degree Nurse and the Vocational Nurse within various settings in today's health care systems. Students assess their own learning styles and compare their abilities to those required in nursing; critical thinking is applied to several scenarios. Written, verbal and math skills are emphasized along with learning resources, study strategies, legal and ethical aspects of practice, and stress management. The rigors of being a nursing student and graduate nurse are presented along with information on the current job market and opportunities for advancement in nursing.

NURSE 305 Transition to Associate Degree Nursing 4 Units
Formerly: NURSE 23

Prerequisite: BIOL 430, BIOL 431, and BIOL 440 with a cumulative GPA of 3.0; PSYC 300, FCS 340, FCS 324; ENGWR 300, COMM 301 or 331, and SOC 300 or ANTH 310 with a cumulative GPA of 2.5; possess a current California license as a Licensed Vocational Nurse.
Acceptable for credit: CSU
54 hours Lecture; 54 hours Laboratory
The course is designed for the qualified Licensed Vocational Nurse who is admitted for advanced placement into the second year of the Associate Degree Nursing Program. Emphasis of the course is on assessment of knowledge base and clinical skills through individual assessment. A profile will be developed for each student that will focus on identification of his/her needs as a learner. Students will be given an orientation to the generic program and provided with suggestions on how to adapt to the student nurses' role. Content includes the nursing process, pathophysiology, cultural diversity, communication skills, and role change. The student will be provided with the opportunity to implement nursing care utilizing scientific principles and nursing concepts in an appropriate clinical setting.

NURSE 315 Pharmacology and Implications for Nursing 2 Units
Formerly: NURSE 11

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This course will detail the principles of pharmacology, pharmacokinetics, pharmacodynamics, pharmacotherapeutics and adverse drug reactions. The major drug classes and related nursing implications for people receiving drugs that affect the body systems, prevent and treat pain, infections, malignant neoplasms, and seizure disorders will be discussed. In addition, drugs that alter psychogenic behavior and sleep patterns will be presented.

NURSE 325 Medical Dosage Calculations 1 Unit
Formerly: NURSE 14A

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course prepares students to accurately calculate oral and parenteral drug dosages for medication administration. Students will learn three systems of measurement and conversion from one system to another. Basic flow rates of IV fluids will be covered. Course content will also include: 1) review of basic arithmetic operations used in dosage calculations; 2) interpretation of drug labels; 3) common medical abbreviations used in dosage calculations; 4) use of the following methods: basic formulas, ratio and proportion, fractional equation, and dimensional analysis in dosage calculations. Calculators will not be used in this course.

NURSE 330 Medical Terminology in Spanish (Same as AH 312) 1 Unit
Formerly: NURSE 12

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

NURSE 340 Preventative and Complementary Health Care Modalities 1.5 Units
Formerly: NURSE 15

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This 1.5 unit course is an introduction to preventive and complementary health care modalities/techniques. Course content will include exploring lifestyle changes that will help prevent disease and improve the quality of life. Alternative health care modalities such as biofeedback, chiropractic and meditation will be introduced.

NURSE 350 Pathophysiology as it Relates to Nursing Practice, Part I 2 Units
Formerly: NURSE 24

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This two-unit course explores the response of the human body to illness and injury. In this course, the mechanisms of disease and defense, disturbances of respiration and circulation will be covered. Through the use of lecture/discussion and a case studies approach, the student will be assisted to apply this knowledge toward planning more effective nursing care. This course is designed for people in the nursing/allied health related fields.

NURSE 351 Pathophysiology as it Relates to Nursing Practice, Part 2 — 2 Units

Formerly: NURSE 25

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture
This two-unit course explores the response of the human body to illness and injury. In this course, the disorders of metabolic, endocrine and reproductive function and disruption of renal, neuromuscular and structural integrity will be covered. Through the use of lecture/discussion and a case studies approach, the student will be assisted to apply this knowledge toward planning more effective nursing care. This course is designed for people in the nursing/allied health related fields.

NURSE 370 Addiction Awareness — 1 Unit

Formerly: NURSE 31

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course will describe the dynamics, behavioral changes, medical consequences and social problems that result from substance abuse, with a special emphasis on impaired professionals.

NURSE 372 Role Development and Stress Reduction for the Health Care Student — 1 Unit

Formerly: NURSE 32

Prerequisite: None
18 hours Lecture
This course will focus on aspects of role transition from the student to health care professional. In an effort to prevent professional burnout, stress management and self-nurturing techniques will be highlighted, in addition to therapeutic interventions for problematic client behaviors.

NURSE 405 Fundamentals of Health and Nursing Care — 10.5 Units

Formerly: NURSE 10

Prerequisite: Enrollment in the Associate Degree Program of Nursing and completion of BIOL 430, 431, and 440 with grades of "C" or better, and with a cumulative GPA of 3.0 or better. Completion of FCS 340, FCS 324, ENGWR 300, and PSYC 300 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses; completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher
Advisory: NURSE 120.
Acceptable for credit: CSU
72 hours Lecture; 352 hours Laboratory
This course utilizes the conceptual framework of the curriculum (Basic Human Needs, Life-Cycle Development, Health-Illness, Significant Health Problems, Stress Adaptation) to provide the foundation for the following three semesters of the program. It includes an introduction to nursing, its evolution, present trends and issues, legal aspects, and concepts underlying today's practice. Basic principles of delegation, management and home care are introduced and integrated into appropriate content. The theory and related clinical experiences prepare the student to utilize critical thinking and the nursing process in providing direct patient care with a focus on basic human needs. The student learns to use standard nursing measures to support patient's adaptive mechanisms for attaining and maintaining wellness during early, middle and late adulthood. The sub-concepts integrated throughout the course are personal hygiene, nutrition, communications, human sexuality, cultural diversity, legal/ethical aspects, pharmacology and pathophysiology. Emphasis is given to the promotion of health in the elderly and in persons with varying degrees of immobility.

NURSE 415 Nursing and Health Maintenance Through Adult Years — 11 Units

Formerly: NURSE 20

Prerequisite: Completion of NURSE 405 and COMM 301 or COMM 331 with grades of "C" or better.
Acceptable for credit: CSU
90 hours Lecture; 324 hours Laboratory
This course presents theory and practice related to helping patients cope with common physiological stressors. Content focuses on application of principles in perinatal nursing and common medical-surgical health problems related to the adult and older adult in the acute care, home care, rehabilitation, and community settings. Theory related to personal hygiene, nutrition, communication, pathophysiology, pharmacology, and common health resources is integrated throughout the course. Learning experiences provide students with the opportunity to acquire new clinical skills and apply previously learned principles and concepts in a variety of clinical settings. There is emphasis on the utilization of the nursing process, management, delegation and critical thinking skills to meet basic human needs, promote health and prevent illness.

NURSE 425 Nursing Complex Health Problems Throughout the Life Cycle — 11 Units

Formerly: NURSE 30

Prerequisite: Completion of NURSE 415 with a grade of "C" or better; completion of SOC 300 or ANTH 310 with a grade of "C" or better.
Acceptable for credit: CSU
90 hours Lecture; 324 hours Laboratory
This course emphasizes theory and practice related to helping patients/families adapt to pathophysiological and pathopsychological stressors. Content focuses on application of medical-surgical principles in medical/surgical, pediatrics, and psychiatric/mental health nursing, including rehabilitative measures. In addition to the commonly integrated sub-concepts, theory related to chemical dependency, intra-family/child abuse, assaultive behavior, geriatric psychiatric nursing, interdisciplinary approaches, and community health agencies is taught. Learning experiences provide students the opportunity to utilize the nursing process, as well as organizational, decision-making, critical thinking and management skills when helping patients of all ages meet their basic human needs.

NURSE 435 Complex and Multiple Patient Care **10 Units**

Formerly: NURSE 40

Prerequisite: Completion of NURSE 425 with a grade of "C" or better.
Corequisite: NURSE 445.
Acceptable for credit: CSU
72 hours Lecture; 324 hours Laboratory
The last semester course focuses on theory and practice related to multiple patient assignments and to caring for patients with complex health problems. The learning experiences provide the student with the opportunity to continue developing skills, emphasizing organization, priority setting, decision making, critical thinking, leadership, management, delegating, ethical and legal personal accountability. Clinical experiences may include, but are not limited to, acute, subacute, extended care, home health care, and hospice.

NURSE 445 Clinical Seminar **.5 Unit**

Formerly: NURSE 41

Prerequisite: Completion of NURSE 425 with a grade of "C" or better
Corequisite: Concurrent enrollment in NURSE 435.
Acceptable for credit: CSU
27 hours Laboratory
Using a variety of teaching methods including Computer Assisted Instruction (CAI), this course is designed to provide supplemental clinical information related to current nursing practice and health care issues.

Nursing, Vocational V N
(LVN Preparation)

Associate in Science Degree

Career Certificate

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities
This program prepares the student for employment as a licensed vocational nurse. The LVN may work in hospitals, doctors' offices, ambulatory care settings, skilled nursing facilities, or extended care facilities to provide basic patient care to clients of all ages under the supervision and direction of physicians or registered nurses. The specific procedures performed vary greatly depending on the work setting.

Recommended High School Preparation
Classes in biology, mathematics, and English.

Program Information
The Vocational Nursing Program at Sacramento City College is approved by the California Board of Vocational Nursing and Psychiatric Technicians. Upon successful completion of the three-semester, 53-unit program the student is eligible to apply for the National Licensing Examination to qualify as a Licensed Vocational Nurse. Students enrolled in this program are required to complete nursing support and nursing education courses with related clinical experiences in cooperating local hospitals. The program prepares for employment and also leads toward the Associate in Science Degree when additional requirements are met. In addition to 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, graduation and licensing costs.

Students also have the responsibility of their physical examination and required immunizations as well as transportation to and from clinical agencies for day and evening learning experiences. All students must have a current CPR category "C" American Heart Association or Professional Rescuer American Red Cross Certificate.

Additional Information
Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program. For information call (916) 558-2271 or visit the SCC Web Site at http://www.scc.losrios.edu.

Enrollment Eligibility

- Completion of BIOL 100 (Anatomy and Physiology) with a GPA of 3.0.
- Completion of FCS 324 (Human Development: A Life Span), and FCS 340 (Nutrition), and AH 110 (Medical Language for Health Care Providers) with a cumulative GPA of 2.5 in these three (3) courses.
- The Board of Vocational Nursing and Psychiatric Technicians requires a five-year recency for the prerequisite courses.
- Completion of ENGRD 11 or eligibility for ENGRD 110 as determined by the reading assessment process for all applicants who do not have an Associate in Arts degree or higher.
- Be a high school graduate or pass the GED.

Enrollment Process

1. Applications for enrollment and official transcripts supporting completion of prerequisite courses must be submitted to the Science and Allied Health Division by April 15th for the Fall semester enrollment and October 15th for the Spring semester enrollment.
2. Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not enrolled will be considered alternates. One-third of the class will be randomly selected from the eligible applicants who were alternates from the previous semester. Two-thirds of the class will be selected from all eligible applicants.

Prerequisite Courses:
BIOL 100, Anatomy & Physiology 3
FCS 340, Nutrition 3
FCS 324, Human Development 3
AH 110, Medical Language for Health Care Providers 3

Required Program	Units
VN 120, Meeting Adult Basic Health Needs	14
VN 130, Health Needs Of All Age Groups	12
VN 140, Meeting Complex Adult Health Needs	12

Required General Education	Units
PSYC 300, General Principles	3
Total Units Required	**53**

NOTE
1. PSYC 300 may be taken before entering VN 120. A grade of "C" or better is required.
2. Completion of ENGRD 11 or eligibility for ENGRD 110 as determined by the reading assessment process for all applicants who do not have an Associate Degree or higher.
3. Vocational Nursing courses must be taken in sequence.
4. 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.
5. The Board of Vocational Nursing and Psychiatric Technicians requires a five-year recency for the prerequisite courses.
6. The Board of Vocational Nursing and Psychiatric Technicians requires that the student be a high school graduate or pass the GED.

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.

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

Admission, Reentry or Transfer
Contact the Director of Vocational Nursing, Sacramento City College, 3835 Freeport Boulevard, Sacramento, CA 95822 or call (916) 558-2271.

Vocational Nursing (VN)

VN 110 Nurse Assistant and Home Health Aid: Theory and Practice — 6 Units

Formerly: VN 50

Prerequisite: None
70 hours Lecture; 120 hours Laboratory
A pre-certification training program for nurse assistants and the home health aid. Classroom lectures including basic nursing skills, patient safety and rights, and the social and psychological aspects of patients. Supervise clinical practice in the college lab and in the long-term care facility.

VN 120 Meeting Adult Basic Health Needs — 14 Units

Formerly: VN 53

Prerequisite: Enrollment in the Vocational Nursing Program and completion of BIOL 100 with a grade of "B" or better; completion of AH 110, FCS 340, and FCS 324 with grades of "C" or better and a cumulative GPA of 2.5 in these three (3) courses; completion of ENGRD 11 or eligibility of ENGRD 110 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
144 hours Lecture; 324 hours Laboratory
This course is an orientation to Vocational Nursing and role of the Vocational Nurse within the health care team, including historical, ethical, and legal aspects. Theory and practice introduces the nursing process and related concepts (basic human needs, life-cycle development, health-illness continuum, and major health problems related to cardiovascular/respiratory nutrition-elimination, mobility (activity and exercise), hormonal disturbances, and surgical interventions. Fundamental skills and responsibilities involved in patient care, including medication administration, principles of communication, health teaching, cultural diversity, and human sexuality are included. Emphasis is on assessment of patient needs and basic nursing interventions for adults of all ages.

VN 130 Meeting Health Needs of All Age Groups — 12 Units

Formerly: VN 60

Prerequisite: Completion of VN 120 with a grade of "C" or better.
108 hours Lecture; 324 hours Laboratory
Students apply theory in utilizing the nursing process to meet the needs of: 1) adult patients with major health problems related to more complex regulatory, cardio-vascular/respiratory, and reproductive disturbances; 2) mothers during the maternity cycle and newborns; 3) hospitalized children of various ages. Emphasis is on increasing independence in the implementation of care plans. Concepts and principles related to legal and ethical aspects, communications, health teaching, cultural diversity and human sexuality are applied in a variety of clinical settings and with patients of all ages.

VN 140 Meeting Complex Adult Health Needs 12 Units

Formerly: VN 70

Prerequisite: Completion of VN 130 with a grade of "C" or better. Corequisite: PSYC 300.
108 hours Lecture; 324 hours Laboratory
Students apply course theory in utilizing the nursing process to meet the needs of adult patients of all ages with major health problems related to more complex regulatory, elimination, cardiovascular/respiratory and nutritional disorders. Emphasis is on fulfilling all steps of the nursing process. Principles related to legal and bio-ethical aspects, communication, health teaching, cultural diversity and human sexuality are included. Management principles, the Vocational Nursing Practice Act, professional organizations, resume writing and job search are presented.

VN 150 Intravenous Therapy and Blood Withdrawal 1.5 Units

Formerly: VN 71

Prerequisite: VN 130 or NURSE 415 or equivalent courses.
27 hours Lecture; 9 hours Laboratory
This course will provide the student with the knowledge and skills to start and superimpose intravenous fluids and withdraw blood. The course meets the requirements of the Board of Vocational Nursing and Psychiatric Technicians for Licensed Vocational Nurses to become certified in IV therapy and blood withdrawal.

Occupational Therapy Assistant
O T A

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

This program prepares the student for employment as an occupational therapy assistant. Occupational therapy assistants work with people of all ages who, because of physical, cognitive, developmental, social, or emotional problems, need specialized assistance in order to lead an independent, productive, and satisfying life. They may work in a wide variety of settings including hospitals, rehabilitation centers, skills nursing facilities, home health agencies, school systems, psychiatric hospitals and private practice outpatient clinics.

Program Information

An Associate in Science Degree is required for the Occupational Therapy Assistant Program. The Degree includes Occupational Therapy Assistant courses (42 units), Allied Health courses (5 units), and specific general education and science courses required for the program (19-26 units). Students must also take additional courses to meet graduation requirements of the College. The Allied Health and OTA courses are offered 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. The program requires two nine-week, full-time fieldwork experiences that take place during the student's final semester. In addition to college enrollment fees, other costs include: books and supplies ($700.00); physical examinations and immunizations ($175.00); malpractice insurance ($30.00); and fee for certification test ($395.00). 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.

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.

Additional Information

Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program. For information call (916) 558-2271 or visit the SCC Web Site at http://www.scc.losrios.edu.

NOTE: The Occupational Therapy Assistant Program enrolls a new class annually in the spring providing a minimum enrollment of 15 students.

Enrollment Eligibility

Completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses AND ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an Associate degree or higher. BIOL 100, Anatomy and Physiology, or BIOL 430 and 431, or equivalent courses must be completed within the last ten (10) years.

Enrollment Process:

1. Students applying with courses in progress must indicate so on the application and enrollment in the program will be dependent upon submission of transcripts verifying completion of prerequisite courses.
2. All applications for enrollment and official transcripts must be submitted to the Science & Allied Health Division by October 15th to be considered for enrollment for the spring semester.
3. Completion of the enrollment eligibility requirements places the applicant in the random selection pool. Eligible students who are not enrolled will be considered alternates. Each year one-third of the class will be randomly selected from the previous year's alternates who have reapplied. Two-thirds of the class will be randomly selected from all eligible applicants.
4. After all eligible applicants have been offered admission, eligible applicants applying after October 15 will be considered.

Required Program	**Units**
OTA 100, Introduction to Occupational Therapy	1
OTA 102, Developmental Life Tasks, OR PSYC 370, OR FCS 324	3
OTA 110, Functional Biomechanics for the OTA	3
OTA 111, Functional Biomechanics Lab for the OTA	1
OTA 120, Fundamentals of OTA Practice	3
OTA 131, Occupational Therapy Process in Psychosocial Dysfunction	5
OTA 132, Introduction to Clinical Practice in Psychosocial Dysfunction	1
OTA 140, Theoretical Foundations of Physical Dysfunction	3
OTA 141, Occupational Therapy Process in Physical Dysfunction	4
OTA 142, Introduction to Clinical Practice in Physical Dysfunction	1
OTA 150, Occupational Therapy Process & Practice in Developmental Disabilities and Pediatric Conditions	2
OTA 121, Contemporary Models of Practice in Occupational Therapy	3
OTA 160, Field Work Level II for the Occupational Therapy Assistant	6
OTA 161, Field Work Level II for the Occupational Therapy Assistant	6
Subtotal	**42**

Allied Health Courses:	**Units**
AH 106, Communication for Allied Health Careers	2
AH 110, Medical Language for Health Care Providers	3
Subtotal	**5**

General Education and Science Courses Required for the OTA Program	**Units**
ENGWR 300, College Composition, OR ENGWR 100, College Writing	3
FCS 340, Nutrition	3
COMM 301, Public Speaking, OR COMM 371, Voice and Diction	3
CISC 300, Computer Familiarization	1
PSYC 300, General Principles, OR PSYC 350, Human Behavior (10 year recency required)	3
SOC 300, Introductory Sociology, OR ANTH 310, Cultural Anthropology	3
BIOL 100, Introductory Concepts of Human Anatomy and Physiology (10-year recency required), OR BIOL 430 and 431, Anatomy and Physiology	3-10
Total Program Units Required	**66-73**

Students who do not plan to enter a B.S. program may elect to take BIOL 60 to meet program requirements.

NOTE: A grade of "C" or better in all required courses is required.

Additional courses are necessary to meet graduation requirements.

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.

Occupational Therapy Assistant (OTA)

OTA 100 Introduction to Occupational Therapy 1 Unit

Formerly: OTA 50

Prerequisite: None
18 hours Lecture
This course has been designed to provide the student with information needed to determine if a career in occupational therapy is a good fit. The student is introduced to the field of occupational therapy and the role of the Certified Occupational Therapy Assistant. This course will explain occupational therapy and its history, the types of settings in which occupational therapy practitioners' work, and how purposeful activity is used as a treatment modality. Aspects involved in being an occupational therapy practitioner, such as involvement in professional organizations, standards, regulations and ethics, are also discussed. An observation at an occupational therapy clinic is required.

OTA 102 Developmental Life Tasks 3 Units

Formerly: OTA 51

Prerequisite: None
54 hours Lecture
This course explores theories of human development as they apply to the life span and variances in development that interfere with human behavior.

OTA 110 Functional Biomechanics for the OTA 3 Units

Formerly: OTA 52

Prerequisite: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses. Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
Corequisite: OTA 111.
54 hours Lecture
This course covers components of human movement, including joint structure and function, muscle action, motor and reflex development, balance and sensory influence. Students will learn the importance of movement to function and occupational performance across the lifespan.

OTA 111 Functional Biomechanics Lab for the OTA 1 Unit

Formerly: OTA 52L

Prerequisites/Corequisites: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses. Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
54 hours Laboratory
This course uses a laboratory problem solving approach in which students experience functional human movement across the lifespan. Through hands-on analysis of human movement students learn about biomechanical principles, muscle function, joint range of motion, the influence of motor and reflex development, balance, and sensory influences. Students also learn how to use proper body mechanics, and perform manual muscle testing, goniometry measurement, and biomechanical activity analysis.

OTA 120 Fundamentals of Occupational Therapy Assistant Practice 3 Units

Formerly: OTA 53

Prerequisites/Corequisites: Enrollment in the Occupational Therapy Assistant Program and completion of BIOL 100, OTA 100, OTA 102, and AH 110 with grades of "C" or better and a cumulative GPA of 2.5 in these four (4) courses. Completion of ENGRD 110 or eligibility for ENGRD 310 as determined by the reading assessment process for all applicants who do not have an AA Degree or higher.
54 hours Lecture
In this course, students learn the fundamental of practice in Occupational Therapy. Course content includes departmental operations, role delineation, supervision requirements, regulations and service management functions such as documentation, reimbursement, and quality assurance. Management of activity programs is examined. Professional attitudes and behaviors are emphasized.

OTA 121 Contemporary Models of Practice in Occupational Therapy 3 Units

Formerly: OTA 59

Prerequisite: OTA 131 and 132 with grades of "C" or better.
54 hours Lecture
Significant changes in health care have resulted in a move away from the medical/institutional models to community-based models. This course will provide the occupational therapy assistant student with a foundation of knowledge which will allow the student to pursue practice opportunities in community-based programs. In this course, the student will gain an understanding of the roles and responsibilities of the occupational therapy assistant in a community-based setting. Through a capstone project, the student will learn how to develop a needs assessment for a community-based program, develop goals and objectives for the program, and design a plan for carrying out the goals and measuring the outcomes of the program. Students may be required to participate in field trips to community-based programs as a part of the course.

OTA 131 Occupational Theory and Process in Psychosocial Dysfunction 5 Units

Formerly: OTA 55

Prerequisite: Completion of OTA 110, 111, 120, AH 106, PSYC 300 or 350 (within the last 10 years), and ENGWR 300 or ENGWR 100, with grades of "C" or better.
Corequisite: OTA 132.
72 hours Lecture; 54 hours Laboratory
This course will introduce the pathological conditions most commonly encountered by the Certified Occupational Therapy Assistant (COTA) in psychosocial settings. The course is designed to prepare the student to apply theoretical approaches to the treatment of patients with psychosocial disabilities. This course examines the role of the COTA in working with individuals across the lifespan who have mental health disorders. Students will learn how to identify and utilize assessment tools and therapeutic interventions to maximize client's psychosocial occupational performance components.

OTA 132 Introduction to Clinical Practice in Psychosocial Dysfunction 1 Unit

Formerly: OTA 55P

Prerequisite: Completion of OTA 110/111, AH 106, PSYC 300 or 350 and ENGWR 300 or ENGWR 100 with grades of "C" or better.
Corequisite: OTA 131.
54 hours Laboratory
This course provides an opportunity for students to begin to integrate academic learning with clinical practice. Students are expected to function as participant observers in the clinical setting. Clinical practice experiences at Level I are structured around the assignments provided by the course instructors with emphasis on observation of patients/clients with a variety of psychosocial diagnoses and degrees of disability; written and verbal communication; professional behavior; and individual/group participation with patients/clients. Students are encouraged to identify their own personal reactions and feelings in relation to the clinical situation; maintain a written log and use seminar time to discuss issues not addressed during the clinical experience.

OTA 140 Theoretical Foundations of Physical Dysfunction 3 Units

Formerly: OTA 56

Prerequisite: Completion of OTA 120 with a grade of "C" or better.
54 hours Lecture
This course will introduce the student to the neurological, orthopedic and medical disorders most commonly seen in physical disabilities. The course prepares the student to apply theoretical treatment approaches to enhance occupational performance of persons with these types of physical conditions.

OTA 141 Occupational Therapy Process in Physical Dysfunction 4 Units

Formerly: OTA 57

Prerequisite: OTA 131 and 132 with grades of "C" or better.
Corequisite: OTA 142.
54 hours Lecture; 54 hours Laboratory
The course focuses on occupational therapy evaluation and treatment techniques for orthopedic, neurological or medical conditions. Emphasis is made on the therapeutic use of activities and media to promote the occupational role and health of the individual across his or her life span.

OTA 142 Introduction to Clinical Practice in Physical Dysfunction 1 Unit

Formerly: OTA 57P

Prerequisite: OTA 131 and 132 with grades of "C" or better.
Corequisite: OTA 141.
54 hours Laboratory
This course provides an opportunity for students to begin to integrate academic learning with clinical practice. Students are expected to function as participant observers in the clinical setting. Clinical practice experiences are structured around the assignments provided by the course instructors with emphasis on observation of patients/clients with a variety of physical diagnoses and degrees of disability; written and verbal communication; professional behavior; and individual/group participation with patients/clients. Students are encouraged to identify their own personal reactions and feelings in relation to the clinical situation; maintain a written log and use seminar time to discuss issues not addressed during the clinical experience.

OTA 150 Occupational Therapy Process and Practice in Developmental Disabilities and Pediatric Conditions 2 Units

Formerly: OTA 58

Prerequisite: OTA 110, OTA 111, and OTA 120 with grades of "C" or better.
27 hours Lecture; 27 hours Laboratory
This course introduces developmental disabilities and common conditions of children referred for occupational therapy treatment. The scope of occupational therapy, the types of practice settings, and the role of the occupational therapy assistant in pediatrics and developmental disabilities are also covered. Common frames of references, evaluation tools and procedures, and intervention strategies used in pediatric occupational therapy practice are presented. This course also includes 12 hours of fieldwork observation at Level I in various pediatric practice settings.

OTA 160 Field Work Level II for the Occupational Therapy Assistant 6 Units

Formerly: OTA 98A

Prerequisite: OTA 131 and 132 with grades of "C" or better.
360 hours Laboratory
This course concentrates on the application of knowledge and skills for the occupational therapy assistant student. The student is placed in a supervised fieldwork setting, which provides the student with the opportunity for carrying out professional responsibility with appropriate supervision and professional role modeling. Students complete 360 hours of supervised fieldwork in a facility working with clients/patients with physical and/or psychosocial dysfunction. Students will be placed in different fieldwork sites for OTA 160 and OTA 161 in order to be exposed to a broad variety of clinical settings. Regularly scheduled seminars with the academic instructor and peers, in which attendance is mandatory, are included as a part of the 360 hours.

OTA 161 Field Work Level II for the Occupational Therapy Assistant 6 Units

Formerly: OTA 98B

Prerequisite: OTA 121, 141, and 142 with grades of "C" or better.
360 hours Laboratory
This course concentrates on the application of knowledge and skills for the occupational therapy assistant student. The student is placed in a supervised fieldwork setting, which provides the student with the opportunity for carrying out professional responsibility with appropriate supervision and professional role modeling. Students complete 360 hours of supervised fieldwork in a facility working with clients/patients with physical and/or psychosocial dysfunction. Students will be placed in different fieldwork sites for OTA 160 and OTA 161 in order to be exposed to a broad variety of clinical settings. Regularly scheduled seminars with the academic instructor and peers, in which attendance is mandatory, are included as a part of the 360 hours.

Philosophy PHIL

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

Philosophy examines basic questions regarding such topics as the nature of truth, sound reasoning, goodness, beauty, God, justice, and reality. Philosophy courses apply the insights of different cultural traditions to contemporary life. Diligent study of philosophy will improve one's critical thinking skills.

Career Options

Teaching; Medical Ethics; Public Service; Religious Service; Publishing; Social Work.

PHIL 300 Introduction to Philosophy 3 Units

Formerly: PHIL 6

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, D2
Acceptable for credit: UC/CSU
54 hours Lecture
This course will apply critical thinking techniques of analysis and evaluation to the methods, arguments and positions of several philosophers on topics such as human freedom, the belief in God, the nature and limits of scientific knowledge, natural rights, the nature of the State, and the basis of moral judgments.

PHIL 302 World Philosophy 3 Units

Formerly: PHIL 24

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a critical analysis of major philosophical beliefs, values, and social and political institutions of the peoples of Asia, Africa, the Middle East, Latin America, Native America and Europe.

PHIL 310 Introduction to Ethics 3 Units

Formerly: PHIL 5

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC/CSU
54 hours Lecture
This course covers personal and social moral issues and positions. Among possible topics are the quest for happiness, the good, freedom and rights, racial and sexual discrimination, suicide, abortion, and the death penalty.

PHIL 317 Global Ethics and Environmental Ecology 3 Units

Formerly: PHIL 22

Prerequisite: None
Advisory: Successful completion of ENGWR 300.
General Education: AA/AS Areas C, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a historical study of diverse philosophies about our place in nature and our use of natural resources. Ideas will be drawn from numerous ancient and contemporary sources, both religious and scientific, which address the question of what ethical guidelines might be prudent and practical for dealing with our current environmentally-linked global problems. The nature of scientific activity and its role in understanding and mitigating these problems will also be discussed. These problems include pollution, ecosystem destruction, loss of fertile soil caused by non-sustainable farming practices.

PHIL 320 Logic and Critical Reasoning 3 Units

Formerly: PHIL 4

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, D2.
Acceptable for credit: UC/CSU
54 hours Lecture
Logic and critical reasoning aims at improving the student's capability as a logical and critical thinker. The student will learn the importance of open-mindedness, healthy skepticism and intellectual humility. The student will learn to distinguish sound from unsound inductive and deductive arguments and how to apply critical thinking skills to college studies and to everyday life. Special emphasis is placed upon recognizing and overcoming hindrances to critical thinking and upon recognizing misleading, fallacious or irrational appeals that attempt to manipulate beliefs and actions. Emphasis is also placed upon the role of logic and critical thinking in statistical, analogical and causal reasoning.

PHIL 322 Critical Thinking About the Paranormal and the Occult 3 units

Prerequisite: Successful completion of ENGWR 300 with a grade of "C" or better.
General Education: AA/AS Area D2
Acceptable for credit: CSU
54 hours lecture
This course will teach the fundamentals of critical thinking by a methodology that requires the student to apply critical thinking skills to the reasoning of researchers in parapsychology and occult studies. The focus is on critically evaluating the arguments of researchers who claim to have scientific evidence of spirits or psychic phenomena. These evaluations will be executed using the tools of critical thinking, logic, epistemology, and the philosophy of science. Special emphasis will be placed upon recognizing and overcoming hindrances to critical thinking and upon recognizing misleading, fallacious, or irrational appeals that attempt to manipulate beliefs and actions. Emphasis will also be placed upon understanding the nature and limits of science.

PHIL 325 Symbolic Logic 3 Units

Formerly: PHIL 12

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area D2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces the student to logical symbolism, truth tables, and methods of formal analysis and proof in propositional and predicate logic. It is recommended for students of the sciences, computer programming, mathematics, and philosophy.

PHIL 330 History of Classical Philosophy 3 Units

Formerly: PHIL 20

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (PHIL 330 or 480, maximum one course)/CSU
54 hours Lecture
This course is a study of the origin and development of Western philosophy from the period of the ancient Greeks and Romans, and continuing through the Middle Ages. This course is recommended for all philosophy, history and humanities majors.

PHIL 331 History of Modern Philosophy 3 Units

Formerly: PHIL 21

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C
Acceptable for credit: UC (PHIL 331 or 481, maximum one course)/CSU
54 hours Lecture
This course examines, analyzes, and critically evaluates philosophical works essential to the development of Western philosophy from Bacon to Kant. The course is recommended for all philosophy, history and humanities majors.

PHIL 338 Contemporary Philosophy 3 Units

Formerly: PHIL 8

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is recommended for students interested in an introduction to philosophy with a focus on existential concerns such as alienation, authenticity and anxiety, and on problems in the philosophy of language such as the meaning of "meaning" and language games.

PHIL 352 Introduction to World Religions 3 Units

Formerly: PHIL 9

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to several religious traditions and thus to an appreciation of the very nucleus of civilization in various periods of history and various part of the world, as well as to an understanding of fundamental human orientations. 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, myth and religion, worship and ritual.

PHIL 353 Religions of the Far East 3 Units

Formerly: PHIL 13

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to the major religions of the Far East: Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, and Shintoism. The origins, myths, basic teachings, development, and modern forms of each religion will be surveyed through comparison and contrast with each other in order to clarify religious concepts and practices. The influences of these religions on Western cultures will be examined.

PHIL 368 Law, Justice, and Punishment 3 Units

Formerly: PHIL 23

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Areas B2, C.
Acceptable for credit: UC (PHIL 368 or 482, maximum one course; PHIL 368 or 482 or BUS 345 or SOCSC 360, maximum one course)/CSU
54 hours Lecture
This course includes the study of concepts and practices of law in relation to liberty and morality; theory and practice of American justice; courts and police; theories and practices of punishment; prisons and the death penalty; poverty, race and crime; affirmative action.

PHIL 480 History of Classical Philosophy - Honors 3 Units

Formerly: PHIL 20H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area C.
Acceptable for credit: UC (PHIL 330 or 480, maximum one course)/CSU
54 hours Lecture
This course is a study of the origin and development of Western philosophy from the period of the ancient Greek philosophers and continuing through the Hellenistic and Roman philosophers. The course is recommended for all philosophy, history, and humanities majors. This honors section uses an intensive instructional methodology designed to challenge motivated students.

PHIL 481 History of Modern Philosophy - Honors 3 Units

Formerly: PHIL 21H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Area C.
Acceptable for credit: UC (PHIL 331 or 481, maximum one course)/CSU
54 hours Lecture
This course is a study of the development of Western philosophy from the Renaissance through the period of modern Europe and America. This honors section uses an intensive instructional methodology designed to challenge motivated students.

PHIL 482 Law, Justice, and Punishment - Honors 3 Units

Formerly: PHIL 23H

Prerequisite: Admission to the Honors Program.
General Education: AA/AS Areas B2, C
Acceptable for credit: UC (PHIL 368 or 482, maximum one course; PHIL 368 or 482 or BUS 345 or SOCSC 360, maximum one course)/CSU
54 hours Lecture
This course includes the study of concepts and practices of law in relation to liberty and morality; theory and practice of American justice; courts and police; theories and practices of punishment; prisons and the death penalty; poverty, race, and crime; and affirmative action. This honors section uses an intensive instructional methodology designed to challenge motivated students.

PHIL 496 Teaching Assistant in Philosophy 1-4 Units

Formerly: PHIL 46

Prerequisite: A grade of "B" or better in the course for which the student is going to be a teacher's aide.
Acceptable for credit: CSU
54 hours Lecture
This course is for students who want to develop an in-depth understanding of the fundamentals of philosophy and learn to work with individuals and small groups of students.

PHIL 499 Experimental Offering in Philosophy .5-4 Units

Formerly: PHIL 11

Prerequisite: None
Advisory: Eligibility for ENGWR 300; one or more courses in philosophy with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: CSU
54 hours Lecture
Themes and experimental offerings in Philosophy 11 will encompass topics from the following areas: (a) knowledge and existence, (b) self and mind, (c) philosophy and the arts, (d) norms and politics, (e) philosophy of the East and West, (f) philosophical literature and myths, (g) science and human nature, and (h) specific ideas of individual philosophies. The course may be repeated for credit providing there is no duplication of topics.

Photography PHOTO

Associate of Arts Degree

Career Certificate

Certificate of Completion

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

Commercial Photography, Career Certificate

Digital Photography, Career Certificate

Fine Art, Career Certificate

Photo-Journalism, Career Certificate

Portrait and Wedding Photography, Career Certificate

Photography, Certificate of Completion

Career Opportunities

The Photography Program gives students the opportunity to prepare for entry level positions as press photographer, photojournalist, portrait photographer, photo-lab technician, and other career fields that utilize photography techniques.

Recommended High School Preparation

Courses in art, English, journalism, basic photography, graphic arts.

Costs

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

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 350, Photo-Journalism	3
PHOTO 352, Commercial and Advertising Photography	3
PHOTO 400, Digital Imaging	3
Total Units Required	**21**

Suggested Electives
PHOTO 322, 360, 390, 362, 370, 375, 392, 400, 401; ENGWR 384, 100; JOUR 300, 402; ART 300; GCOM 300, 101; BUS 300.

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.

Commercial Photography

Career Certificate

The Commercial Photography certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 360, Large Format Photography	3
PHOTO 362, Zone System	3
PHOTO 370, Portrait and Wedding	3
PHOTO 400, Digital Imaging	3
PHOTO 322, Color Slide Photography	3
Total Units Required	**27**

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

Digital Photography
Career Certificate

The Digital Photography Certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this fast growing field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 400, Digital Imaging	3
PHOTO 401, Digital Photography	3
Total Units Required	**18**

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

Fine Art Photography
Career Certificate

The Fine Art Certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 322, Color Slide Photography	3
PHOTO 360, Large Format Photography	3
PHOTO 362, Zone System	3
PHOTO 352, Commercial and Advertising Photography	3
Total Units Required	**18**

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

Photo-Journalism
Career Certificate

The Photo-Journalism Certificate gives the students the opportunity to fully prepare themselves for an entry-level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 360, Large Format Photography	3
PHOTO 362, Zone System	3
PHOTO 370, Portrait and Wedding	3
PHOTO 400, Digital Imaging	3
PHOTO 322, Color Slide Photography	3
Total Units Required	**27**

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

Portrait and Wedding Photography

Career Certificate

The Portrait and Wedding Certificate gives the students the opportunity to fully prepare themselves for an entry level position in this field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Program	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 390, Studio Lighting Techniques	3
PHOTO 370, Portrait and Wedding	3
PHOTO 375, Fashion and Glamour	3
Total Units Required	**21**

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

Photography

Certificate of Completion, Level 3

The traditional Photography Certificate of Completion gives the students the opportunity to generally prepare themselves for an entry-level position in this fast growing field. Students will work in a lab/studio with traditional and digital methods of photography. Costs: Students will require photography materials as needed by the class(es) chosen, and as requested by the instructors. Lab chemicals are provided.

Required Courses	Units
PHOTO 301, Beginning Photography	3
PHOTO 310, Intermediate Photography	3
PHOTO 335, Color Photography	3
PHOTO 340, Careers in Photography	3
PHOTO 400, Digital Imaging	3
Total Units Required	**15**

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

Photography (PHOTO)

NOTE: The University of California has a limit on the number of units of photography courses that can be transferred. See a counselor for detailed information on the current UC Articulation Agreement.

PHOTO 210 Photography Business 3 Units

Formerly: PHOTO 60

Prerequisite: None
54 hours Lecture
This course is designed to address the business of Photography. It introduces the basic elements of starting and operating a photography business, including necessary permits, studio locations, business plan development, media advertising, marketing, product/services pricing and sales. The student will learn how to prepare, present and implement a photography business plan.

PHOTO 301 Beginning Photography 3 Units

Formerly: PHOTO 40

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course combines lectures and hands-on experience in black and white photography. Instruction includes: camera function, exposure control, film processing, enlarging prints, low light photography, flash photography, and print finishing. Creative control and elements of composition will also be taught. Class includes lecture, slide presentations, lab time, written tests, and a portfolio. There are three optional field trips offered. Students are required to provide their own adjustable camera and necessary materials.

PHOTO 310 Intermediate Photography 3 Units

Formerly: PHOTO 41

Prerequisite: PHOTO 301 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This intermediate course provides instruction in camera and advanced darkroom techniques of black and white photography. Units of instruction include: exposure control, film development, enlarging, composition, daylight and artificial lighting, filters, close-up photography, print finishing, and historical advancements of photographic processes. One optional field trip is offered. Students must have their own adjustable camera and provide necessary materials.

PHOTO 322 Color Slide Photography 3 Units

Formerly: PHOTO 46

Prerequisite: PHOTO 301 and 310 with a grade of "C" or better or equivalent.
Acceptable for credit: CSU
54 hours Lecture
This course provides instruction in the use of color slide material. Students will be experimenting using different slide films from various companies. A strong emphasis is on stock photography, marketing, and exposure control. The chosen process is E-6, and processing will be done off campus. Students must have their own adjustment 35mm cameras and provide related instructional materials. This course may be taken twice for credit.

PHOTO 335 Digital Color Photography 3 Units

Formerly: PHOTO 42

Prerequisite: PHOTO 310 and 400 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course covers the fundamental principles of color photography. Topics of instruction include correct exposure for color films, printing from color negatives or transparencies by digital methods and techniques, digital retouching and color balancing. The class includes lectures, slide presentations, lab time, field trips and written tests. A notebook and a portfolio of 12x10 digital prints, mounted on 11x14 mounts, will be the end product. Students must have their own adjustable cameras and provide necessary digital materials. The approximate cost for materials ranges between $50 and $125. There are three optional field trips offered. This course may be taken three times for credit due to software changes.

PHOTO 340 Careers in Photography 3 Units

Formerly: PHOTO 43

Prerequisite: PHOTO 310 and 400 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to give students an overview of different careers available in the photographic industry. Fields of study include portraiture, wedding photography, fashion, commercial and tabletop, photojournalism. Students are encouraged to pursue their own area of interest through the production of a portfolio, and working with professionals in the field. The class includes: lectures, slide presentations, lab time, written tests, studio visits, notebook and a portfolio of 15x10 prints, mounted on 11x14 mounts. The prints may be computer generated, black & white, or transparency format. In addition the students will complete a resume, price list, and portfolio. Students must supply their own adjustable cameras and provide required digital media. This course may be taken three times for credit.

PHOTO 350 Photojournalism 3 Units

Formerly: PHOTO 44

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course provides instruction in camera and advanced photojournalism techniques in black and white and color photography. Darkroom techniques in film processing and printing are emphasized. Digital photography will be covered as well. A print portfolio or digital portfolio will be completed. Students must provide their own single lens reflex camera and related materials.

PHOTO 352 Photographic-Essay 3 Units

Formerly: PHOTO 55

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course concentrates on the development of the photographic essay. Photographic emphasis is on exploring one subject. Black and white prints are required in a portfolio form. Students must provide their own self-adjustable camera of any format and related materials.

PHOTO 360 Large Format Photography 3 Units

Formerly: PHOTO 47

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to give students a thorough knowledge of view camera operation, both in the studio and in the field. Topics of instruction include: view camera movements to obtain unlimited focus and perspective, correct techniques for exposing and processing sheet film, adjustments necessary to print large format negatives, and presentation of the large format image. This course will also concentrate on advanced black and white printing technique. There are field trips. Students must furnish their own camera of any format and must provide necessary materials. The class includes: lectures, lab, written tests, a journal and production of a portfolio.

PHOTO 362 Zone System 3 Units

Formerly: PHOTO 51

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an advanced study of the zone system in black and white, designed to give the student an in-depth understanding both in theory and practice. Topics include metering exposure for appropriate zone placement, processing control for accurate negative contrast, testing of photographic materials, including densitometry and sensitometry, and the practical application of this system. Students are encouraged to use a variety of formats.

PHOTO 370 Portraiture and Wedding Photography 3 Units

Formerly: PHOTO 52

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to include portrait lighting and posing, an understanding of wedding photography, camera and darkroom techniques. Wedding protocol, multicultural weddings, studio operation, pricing, and studio/outdoor portraiture. Students are urged to work in black & white and color. The format of class includes lectures, lab time, on location class meetings, and a portfolio geared toward a professional presentation. This course may be taken two times for credit.

PHOTO 375 Fashion-Glamour Photography 3 Units

Formerly: PHOTO 53

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to include fashion/glamour posing, lighting, camera and darkroom techniques. The business of fashion/glamour photography and pricing studio operation. Students are urged to work in black & white and color. The format of the class includes lectures, lab time, on location class meetings, and a portfolio geared toward a professional presentation. This course may be taken two times for credit.

PHOTO 390 Studio Lighting Techniques 3 Units
Formerly: PHOTO 50

Prerequisite: PHOTO 301 and 310 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is a study in studio lighting techniques used in commercial photography. Topics of instruction include: lighting ratio, correct exposure using electronic flash, basic portraiture and advertising. 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 & white and color. The class includes lecture, slide presentations, lab time, written tests, notebook and a portfolio with three outside on-campus class meetings. Students must provide own adjustable camera and related instructional materials.

PHOTO 392 Commercial and Advertising Photography 3 Units
Formerly: PHOTO 56

Prerequisite: PHOTO 310 and 400 or equivalent.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is an advanced study in studio lighting techniques used in commercial and advertising photography. Topics of instruction include advanced studio lighting, correct exposure using electronic flash, appropriate choice of camera format and films, studies of commercial, advertising, and marketing photography. Students are encouraged to work in a variety of formats, using black & white, color, and digital techniques. The class includes lectures, slide presentations, field trips, lab time, written tests, notebook and a portfolio. This course may be taken four times for credit on different software. Students must supply their own adjustable camera and related digital materials.

PHOTO 400 Digital Imaging 3 Units
Formerly: PHOTO 57

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory course in digital imaging. Methods currently used in publishing will be emphasized. The course topics include Adobe Photoshop, PageMaker, how to use a photo CD, multimedia use for electronic portfolio, use of computers, scanners, and how to develop a digital portfolio. Field trips are included in this course to learn about industry applications. Students must provide their own adjustable camera and digital materials. This course may be taken three times for credit.

PHOTO 401 Digital Photography 3 Units
Formerly: PHOTO 58

Prerequisite: PHOTO 301 and 400 with grades of "C" or better.
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory class in digital photography. Course topics include: use of computers and scanner information on digital cameras, slide presentations, three on-campus field trips required, and development of a digital portfolio. Students must supply their own adjustable camera and digital materials. This course may be taken three times for credit.

PHOTO 498 Work Experience in Photography 1-4 Units
Formerly: PHOTO 98

Prerequisite: None
72 hours Lecture
See Work Experience.

Physical Education
ADAPT DANCE FITNS PACT PET SPORT TMACT

Associate in Arts Degree

Athletic Training, Transfer Degree

Physical Education, Transfer Degree

Division of Physical Education, Health, and Athletics

Gary Torgeson, Dean/Athletic Director

Hughes Stadium, Sections 1 & 3

916-558-2425

Career Opportunities
Teaching, coaching, and athletic administration in elementary and secondary schools and colleges.

Recommended High School Preparation
Standard college preparatory program, especially beginning algebra and chemistry.

Program Information
The program is typical of lower-division requirements for four-year colleges and universities (though the specific science requirements tend to vary from college to college). For specific requirements students should refer to a catalog of the college of their choice.

Required Program	**Units**
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
CHEM 305, Introduction to Chemistry	5
Select three (3) units from the following:	
HEED 300, Health Science	3
HEED 315, Standard First Aid and Community CPR	2
HEED 340, Contemporary Problems of Student Athletes	3
Any PACT course	1
SPORT (Athletic Teams)	2
PET 300, Theory of Physical Education, Fitness, and Sport	3
Total Units Required	**19**

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.

Physical Education, Transfer

Program Information

The program outlined below is typical of lower-division requirements for four-year colleges and universities (though the specific science requirements tend to vary from college to college). For specific requirements students should refer to a catalog of the college of their choice.

Required Program	Units
PET 300, Theory of Physical Education, Fitness, and Sport	3
CHEM 305, Introduction to Chemistry	5
BIOL 402, Cell and Molecule Biology	5
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5
STAT 300, Introduction to Probabilities and Statistics	4
Electives	6
Total Units Required	**33**

Electives - Select six (6) additional units from the following:

HEED 300, Health Science	3
HEED 340, Contemporary Problems of Student Athletes	3
PET 310, Theory and Application of Techniques for Adapted Physical Education	2
PET 330, Care and Prevention of Athletic Injuries	3
PET 342, Theory of Baseball	2
PET 346, Theory of Basketball	2
PET 348, Theory of Dance	2
PET 352, Theory of Football	2
PET 354, Theory of Soccer	2
PET 360, Theory of Softball (Fast-Pitch)	2
PET 364, Theory of Swimming	2
PET 366, Theory of Tennis	2
PET 370, Theory of Track and Field	2
PET 374, Theory of Volleyball	2
PET 376, Theory of Wrestling	2
RECR 300, Introduction to Recreational and Leisure Studies	3
Any Physical Education Activity class	1

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.

Athletic Training, Transfer

Career Opportunities

Teaching athletic training classes, working in a high school, community college, four-year university, physical therapy clinic.

Recommended High School Preparation

Standard college preparatory program.

Program Information

This program outlined below is designed to prepare the student athletic trainer for transfer to a four-year university by having many of the lower-division requirements completed (specific science requirements vary from college to college). Students wanting to be NATA Certified need to complete their Bachelor's Degree.

Required Program

Science Classes:	Units
CHEM 305, Introduction to Chemistry	5
CHEM 306, Introduction to Chemistry	5
PHYS 350, General Physics	4
BIOL 402, Cell and Molecular Biology	4
BIOL 430, Anatomy and Physiology	5
BIOL 431, Anatomy and Physiology	5

Athletic Training Classes:	Units
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
PET 497, Sports Medicine: Athletic Training Internship	1
FCS 340, Nutrition	3
Total Units Required	**39**

Suggested Electives
PSYC 300, HEED 315, STAT 300.

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.

Physical Education

NOTE: The University of California has a limitation on the number of units of physical education courses that can be transferred. The California State University System has no such limitation, but there are restrictions placed on the number of physical education units that can be applied toward the major. (Refer to the catalog of the transfer institution of your choice for detailed information.)

All activity classes are open to both men and women. Students may be concurrently enrolled in more than one physical education activity class; however, no more than two of the same physical education activity classes may be taken by a student in the same semester.

ADAPT (Adapted PE), DANCE (Dance), FITNS (Fitness), PACT (Personal Activity), TMACT (Team Activity), and SPORT (Intercollegiate prefix refer to physical education activity classes meeting the General Education requirement for graduation unless identified otherwise. Several activity areas are separated into beginning, intermediate, and advanced levels. The beginning classes concentrate on fundamental skills, rules, scoring, equipment, dress, etiquette, and basic strategy. The intermediate classes continue efforts on skill development while concentrating on strategy and competitive play. The advanced classes emphasize high level sports techniques.

The Physical Education activity courses are one-unit courses and require three hours of activity each week, unless identified otherwise. They may be repeated up to four times in each activity unless identified otherwise (e.g. four Tennis in any combination of beginning, intermediate, and advanced level).

Adapted Physical Education (ADAPT)

ADAPT 30 Adapted Aquatics/Adapted General Conditioning 1 Unit

Formerly: PER 200

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center.
54 hours Laboratory
This is a non-transferable course in weight training and aquatic conditioning for physically limited and learning disabled students conducted in a recreational environment. All exercise programs are designed to meet the students' individual goals. This course may be taken four times for credit.

ADAPT 310 Adapted Lifetime Sports 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Lifetime sports is a physical education class designed to expose individuals with physical disabilities to a variety of individual sports in which they can participate. Modifications and assistive devices will be used to enable students to participate in sports such as bowling, golf, tennis, etc. This course may be taken four times for credit.

ADAPT 320 Arthritis Exercise, Individual Exercise for Individuals with Arthritis 1 Unit

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Arthritis Exercise is a physical education class that is specially designed for individuals with arthritis. Planned individualized and group activities will promote wellness and fitness. General principles of safe appropriate stretching and exercise will be discussed and practiced. This course may be taken four times for credit.

ADAPT 322 Back Care **1 Unit**

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Back Care is a physical education class designed to help relieve or reduce back pain. Individualized and/or group exercise programs will be designed and utilized for students with back disorders. This course may be taken four times for credit.

ADAPT 324 Heart Healthy **1 Unit**

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Heart Healthy is a physical education class that is specially designed for individuals who are recovering from a cardiac disability. Individualized and/or group activities will be used to increase fitness. General specific exercise principles will be discussed to encourage a continued healthy and active lifestyle. This course may be taken four times for credit.

ADAPT 331 Mobility Training for the Physically Limited **1 Unit**

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professionals. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This is a weight training class for physically limited students who need to increase muscular strength. All exercise programs are designed to meet the student's individual goals. General strengthening, conditioning and body mechanics are included. This course may be taken four times for credit.

ADAPT 332 Adapted Aquatics **1 Unit**

Formerly: PER 1

Prerequisite: A student must have a temporary or permanent disability. Student must have a medical release form signed by a physician or appropriate medical professional. Student must fill out the Intake Procedures Forms from the enabling center (DRC).
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Adapted water exercises will be individually designed for students with physical limitations. This course may be taken four times for credit.

ADAPT 400 Application of Techniques for Adapted Physical Education **1 Unit**

Formerly: PER 10

Prerequisite: Students must have taken PET 310, with a grade of "C" or better.
Acceptable for credit: UC/CSU
54 hours Laboratory
Application of Techniques for Adapted Physical Education is a physical education course which provides students practical experience in the implementation of physical activity for individuals with disabilities. This class may be taken four times for credit.

Dance (DANCE)

DANCE 310 Jazz Dance **1 Unit**

Formerly: PER 1

Prerequisite: For Beginning Jazz Dance, none; Prerequisite for Intermediate: Successful completion of Beginning Jazz Dance with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The beginning course is a basic approach to Jazz Dance. Warm-up technique and turns, isolations, locomotor movements and dance combinations will be taught at this level. The dance combination will vary in styles to include ethnic, lyrical, modern, and hip hop/funk movements and steps. Group choreography and performance will be emphasized. The Intermediate course is an exploration of the various styles of jazz dance at the intermediate level. It includes further review of the dance movements learned in the beginning course. Student choreography and studio performances are required. This course may be taken four times for credit.

DANCE 320 Ballet **1 Unit**

Formerly: PER 1

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Laboratory
This introductory course in classical ballet will focus on traditional ballet exercises at the barre, center floor work and movement across the floor. Beginning dance students with no previous experience are welcome to join. This course may be taken four times for credit.

DANCE 330 Modern Dance **1 Unit**

Formerly: PER 1

Prerequisite: For Beginning Modern Dance, none; Prerequisite for Intermediate Modern Dance, successful completion of Beginning Modern Dance with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Modern Dance covers rhythmic movements, isolated movements, free expression, and improvisation. Elemental concepts of space, time, and force will be included. In beginning modern dance, dance vocabulary, warm-up techniques, improvisational dancing, basic rhythms, music, and sounds will be included. The seven basic locomotor movements and beginning choreography techniques will be taught. In intermediate modern dance, the contributions of various cultures to contemporary dance will be explored. Students will create studies to records, percussion instruments, and other media. This course may be taken four times for credit.

DANCE 340 Social Dance **1 Unit**

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course offers instruction in basic social dance steps, styles, and rhythms. Students will develop the skills necessary for dances such as the Fox Trot, Waltz, Swing, Cha Cha, Mambo/Salsa, Rumba, and Tango. The class will focus on alignment, partnering, analysis of rhythm and execution of specific dances in relation to the music. This course may be taken four times for credit.

DANCE 370 Dance Composition/ Production **1 Unit**

Formerly: PER 1

Prerequisite: None
Advisory: Dance and performing experience.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is designed to give students the opportunity to choreograph and perform dance at the college level. Students will improve technique and experience other forms of dance styles. This course may be taken four times for credit.

Fitness (FITNS)

FITNS 300 Aerobics **1 Unit**

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Aerobics is a physical education course that is designed to improve an individual's level of fitness, general appearance and well-being. This course will concentrate on cardiovascular fitness, muscle toning, and flexibility through aerobics, for example, a variety of abdominal exercises, stretching fundamentals and dancercise routines. This course may be taken four times for credit.

FITNS 303 Dance Aerobics **1 Unit**

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is designed to improve the level of fitness through dance and basic exercise movement. Students will be taught dancercise routines to music appropriate for low-impact activity. Muscular strength and endurance will be achieved through this form of exercise. This class may be taken four times for credit.

FITNS 306 Aerobics: Cardio-Kickboxing **1 Unit**

Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course emphasizes execution, body movements, mechanics and timing of exercises utilized in boxing, circuit training and aerobics to improve general fitness and body toning. Students will be required to provide hand wraps. This course may be taken four times for credit.

FITNS 308 Step Aerobics **1 Unit**

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The Step Aerobics class is a physical education course that is designed to improve an individual's level of fitness, general appearance, and well being. This course will concentrate on cardiovascular fitness, muscle toning, strength development and flexibility through step aerobics: for example, a variety of exercises using hand weights to strengthen upper body, abdominal exercises and various step routines. The course may be taken four times for credit.

FITNS 310 Aqua Aerobics 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Aqua aerobics is a physical education course designed to help students gain an increased level of conditioning through muscular strength, endurance, coordination and flexibility using basic aquatic exercises. No swimming skills are needed. The course will include exercises for shallow water workouts. This course may be taken four times for credit.

FITNS 312 Aquatic Fitness 1 Unit
Formerly: PER 1

Prerequisite: Student must achieve a passing standard on the swim test of 100 yards of freestyle with proficient breathing to the side, 50 yards of backstroke, and 50 yards of breaststroke.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Aquatic Fitness is a physical education course that includes a workout approach with emphasis on aerobic and anaerobic fitness. It is a self-paced class and utilizes interval training, cardiovascular conditioning, swimming technique, and aerobic and anaerobic training principles. This course may be taken four times for credit.

FITNS 330 Cross Training 1 Unit
Formerly: PER 1

Prerequisite: None
Advisory: Beginning Swimming Skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
8 hours Lecture; 28 hours Laboratory
This physical education course is designed to provide students the opportunity to participate in a variety of physical training methods. Class sessions may include, but are not limited to, running and pool workout, resistance, and strength training, as well as the use of stationary equipment. This course may be taken four times for credit.

FITNS 331 Boot Camp Fitness 1 Unit
Prerequisite: None
General Education: AA/AS Area E1.
Acceptable for credit: CSU
54 hours Activity
This course is designed as an intense boot camp fitness class conducted on campus using indoor and outdoor facilities. Training includes aerobic, anaerobic conditioning, strength and endurance training, individual and team fitness concepts. This course may be taken four times for credit.

FITNS 332 Off Season Conditioning 1 Unit
Formerly: PER 1

Prerequisite: Participation in intercollegiate athletics.
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is a physical education course that is designed to instruct the student in the basic fundamentals and techniques of a specific intercollegiate sport. There is a concentration of basic concepts with emphasis on conditioning. Students will have the opportunity to obtain knowledge and practical experience in a specific intercollegiate sport. The course may be taken four times for credit.

FITNS 336 Plyometrics: Advanced Conditioning 1 Unit
Formerly: PER 1

Prerequisite: None
Advisory: Student should be able to demonstrate a high level of fitness conditioning.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Plyometrics is an advanced level conditioning course that will utilize a variety of equipment, training aids, and training methods to promote speed, power, agility, strength, endurance, and flexibility. This course may be taken four times for credit.

FITNS 338 Spin Biking 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is specifically designed for cycling enthusiasts and other athletes looking to improve their cardiovascular cycling skills levels. This course will use basic and athletic drills based on speed, work resistance, recovery periods. This course may be taken four times for credit.

FITNS 354 Individualized Physical Fitness 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course will emphasize individualized structure and components to physical fitness. All workout programs will be specific to the goals, needs and interests of the student. Students will be required to monitor and record all programs, workouts and activities for assisting their lifelong health habits. This course may be taken four times for credit.

FITNS 356 Non-Aerobic Trim and Tone 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Non-Aerobic Trim and Tone is designed to improve an individual's level of fitness, general appearance, and well-being. This class will concentrate on muscle toning and strength development through non-aerobic activities; for example; variety of abdominal exercises, exercises for hamstrings and quadriceps, exercises for buttocks. This course may be taken four times for credit.

FITNS 357 Wellness 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course allows students to work independently while monitoring their fitness program. This allows for a process that guides the students in strategies and decisions for healthy lifestyle habits. This course may be taken four times for credit.

FITNS 360 In-line Skating 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course develops basic knowledge and skills of in-line skating while providing physical exercise. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development within each activity area. This course may be taken four times for credit.

FITNS 380 Circuit Weight Training 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Circuit Weight Training combines weight machines, some free weights, cardiovascular endurance, and flexibility while decreasing body fat. It is a wellness program in which a student, using different muscle groups, will alternate timed lifting with timed recovery. This course may be taken four times for credit.

FITNS 381 Weight Training 1 Unit
Formerly: PER 1

Prerequisite: For Weight Training, None; Prerequisite for Advanced Weight Training: Student must possess beginning weight training skills and knowledge
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Weight Training is a vigorous group weight training program set up in training stations. Weight training apparatus, equipment, and safety are covered. In beginning weight training, the student is expected to have little or no experience with weight training skills and techniques. These will be taught in the course. Advanced weight training is a specialized course dealing with advanced lifting techniques and Olympic lifting exercises. This course may be taken four times for credit.

FITNS 390 Beginning Yoga 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is designed to enhance fitness levels in everyone. It is a complete fitness program, regardless of age, to achieve a more limber body, increase physical coordination, better posture, and improved flexibility. This form of exercise embodies controlled movement, concentration, and conscious breathing. Frees your spirit and provides a workout for the mind, body and internal organs. The student will learn about the oldest physical discipline in existence. In every area of life, yoga represents balanced moderation. This course may be taken four (4) times for credit.

FITNS 401 Walking 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The walking class is a physical education course that is designed to improve a student's level of fitness, physical appearance and well being. This course will concentrate on proper walking techniques, cardiovascular endurance, muscle strengthening and flexibility. The class will offer walking routes on and off campus for workouts. This course may be taken four times for credit.

FITNS 402 Aerobic Running 1 Unit
Formerly: PER 1

Prerequisite: None
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Laboratory
Aerobic running is a physical education course that is designed to instruct the student in the basic fundamentals and techniques of running. The course will concentrate on improving the physical capacity and efficiency of the body with the emphasis on development of muscular power and organic power, as influenced by such factors as body type, diet, health status, rest and sleep. This course may be taken four times for credit.

FITNS 431 Water Safety Instruction 2 Units

Formerly: PER 1

Prerequisite: Advanced swimming with a grade of "C" or better or equivalent.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is designed to teach students to become swimming instructors, administer "Learn-to-Swim Programs" and enable the student to qualify for American Red Cross Water Safety Instructor's certificate.

FITNS 436 Lifeguard Training 2 Units

Formerly: PER 1

Prerequisite: Completion of Advanced Swimming class with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
36 hours Lecture; 4 hours Laboratory
This course is designed to teach students to become a certified lifeguard. The student will learn the skills necessary to pass the American Red Cross certification examination. This course may be taken two times for credit.

FITNS 440 Swimming 1 Unit

Formerly: PER 1

Prerequisite: For Beginning, none; For Intermediate Swimming, students must achieve a passing standard on the swim test of 50 yards of freestyle with proficient breathing to the side; Prerequisite for Advanced: Students must achieve a passing standard on the swim test of 50 yards of freestyle with proficient breathing to the side and 50 yards of backstroke.
General Education: AA/AS Area E1.
Acceptable for credit: UC/CSU
54 hours Laboratory
Swimming covers the basic fundamentals, stroke techniques, and safety skills. The beginning swimming course is designed for non-swimmers who cannot swim one length of the pool (25 meters). Instruction will be given in the physical and psychological adjustment to water as well as basic swimming stroke techniques. Intermediate swimming instruction includes refining the freestyle stroke, backstroke, and breaststroke. Butterfly and turn techniques will be taught. Advanced level of instruction will be provided in the advanced swimming course. The emphasis of the course will be endurance and stroke efficiency. This course may be taken four times for credit.

FITNS 454 Personal Safety 1.5 Units

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
18 hours Lecture; 36 hours Laboratory
This is a physical education course in personal safety. The major areas to be reviewed are safety in the home, office, street, and car. The course covers three topics in these areas: prevention, defensive strategies (physical and non-physical) and follow-up (police report, medical, psychological). Community resources will be discussed. This course may be taken four times for credit.

Personal Activities (PACT)

PACT 310 Badminton 1 Unit

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Badminton is a physical education class that will cover the basic fundamentals and techniques of the game. Rules, strategy, and social etiquette will also be included. This course may be taken four times for credit.

PACT 320 Bowling 1 Unit

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Bowling is a physical education course for beginning, intermediate, and advanced students that will cover the basic fundamentals and techniques as well as rules, etiquette, and scoring. Emphasis in on rhythmic four or five step approach with either a hook or straight ball delivery. This class may be taken four times for credit.

PACT 330 Boxing 1 Unit

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Boxing is a physical education class that will cover the basic fundamentals and techniques of the sport. Rules and strategy will also be included. This course may be taken four times for credit.

PACT 340 Fencing 1 Unit

Formerly: PER 1

Prerequisite: For Beginning, none; Prerequisite for Intermediate: Fencing Beginning, with a grade of "C" or better or equivalent skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Fencing covers the fundamentals of fencing. In beginning fencing, the fundamentals and techniques of the sport will be taught. Basic forms of posture & movement and basic attacks & parries will be covered. In intermediate fencing, intermediate levels of techniques will be taught. Attack and defense skills will be covered. This course may be taken four times for credit.

PACT 350 Golf 1 Unit

Formerly: PER 1

Prerequisite: For Beginning Golf, None.
Advisory: Intermediate Golf is Beginning Golf or beginning golf skills; Advisory: Advanced Golf is Intermediate golf skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Golf covers the basic fundamentals, techniques, rules and social courtesies of the activity. This course is an off-campus class. The student will need transportation to the facility. In beginning golf, the student will learn about beginning golf skills (grip, stance, swing), fundamentals, rules, golf etiquette, and techniques of the game. In intermediate golf, the student will learn about course management in addition to practicing the skills learned in beginning golf. Students must have their own set of golf clubs and equipment. For advanced golf, the student will refine their skill level and learn advanced techniques such as wind-contour of the ground, various surfaces, changes in flight of the ball, and hill lies rules. This course may be taken four times for credit.

PACT 380 Table Tennis 1 Unit

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
This course is intended for all skill levels. It is designed to give the student an arena to learn the skills and strategies involved in table tennis and achieve a cardiovascular workout. This course may be taken four times for credit.

PACT 390 Tennis 1 Unit

Formerly: PER 1

Prerequisite: for Beginning Tennis: None; Prerequisite for Intermediate Tennis: The ability to successfully execute basic tennis skills; Prerequisite for Advanced: The ability to successfully execute intermediate tennis skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Tennis covers the basic fundamentals, stroke techniques, and strategies for singles and doubles play. Beginning tennis will cover the basic fundamentals, techniques, rules, strategy, and etiquette of the activity. In intermediate tennis, singles and doubles play strategy will be included as well as refining stroke techniques. Additional skill techniques and conditioning drills will be taught in the advanced tennis course. This course may be taken four times for credit.

PACT 400 Track and Field 1 Unit

Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
The track and field class is a physical education class that will cover the basic fundamentals of the track and field events. The student will have the opportunity to obtain knowledge and practical experience of track and field. This course may be taken four times for credit.

PACT 410 Wrestling 1 Unit

Formerly: PER 1

Prerequisite: for Beginning Wrestling, none; Prerequisite for Intermediate: Beginning wrestling skills; Prerequisite for Advanced: Intermediate wrestling skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Wrestling covers the basic wrestling techniques, rules, strategies, and etiquette of the activity. In intermediate wrestling, a review of the basic wrestling techniques will be provided. Three wrestling styles will be taught: Collegiate, Freestyle, and Greco-Roman. In advanced wrestling, intermediate wrestling techniques will be reviewed. Students will continue to refine their techniques using the various wrestling styles. This course may be taken four times for credit.

Physical Education - Theory (PET)

PET 300 Theory of Physical Education, Fitness, and Sport 3 Units

Formerly: PET 11

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 310.
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
54 hours Lecture
This course provides students with an orientation of the history, ideas, events, people and programs that have led to the current status of physical education, fitness, and sport. Students will be introduced to various career opportunities in the physical education, fitness, and sports fields. Students will receive information regarding preparation for careers in these fields as well.

PET 304 Introduction to Sports Management 3 Units

Formerly: PET 1

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 310.
General Education: AA/AS Area B2
Acceptable for credit: CSU
54 hours Lecture
This course is designed to introduce students to the world of Sports Management. It will show the scope and career opportunities of Sports Management. It will heighten the student's awareness of careers in sports and the group field of Sports Administration. This will also be an emphasis on current events in the world of Sports Management today.

PET 307 Mental Skills for Sport Performance **3 Units**

Formerly: PET 3

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course develops a mental understanding of sport performance in regards to the brain's impact on muscular activity. Stress management, goal setting, peak performance, the ability to learn, the ability to adjust, and the ability to practice effectively will be taught to enhance sport performance. The student will apply basic mental skills (relaxation/activation, imagery, and cognitive restriction skills) to performance activities.

PET 310 Theory and Application of Techniques for Adapted Physical Education **2 Units**

Formerly: PET 10

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
Theory and Application of Techniques for Adapted Physical Education is a physical education course which provides students an orientation to specific disabilities and practical experience in the implementation of physical activity for individuals with disabilities. Basic knowledge of movement related terminology, charting individual progress, exercise concepts, and characteristics of specific disabilities as they relate to exercise will be covered. There will be an opportunity to learn and practice safe transfers and guide individuals with disabilities through a structured exercise program. This class is invaluable for students interested in pursuing a career in physical therapy, occupational therapy, nursing, adapted physical education or any field that requires one to work with individuals with disabilities.

PET 330 Care and Prevention of Athletic Injuries **3 Units**

Formerly: PET 30

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
54 hours Lecture
This course provides an introduction to injury prevention, injury care and rehabilitation of athletic injuries. Students will gain basic information of sports injuries, their causes and treatment.

PET 331 Lab in Care and Prevention of Athletic Injuries **1 Unit**

Formerly: PER 30

Prerequisite: PET 330 or concurrent enrollment in PET 330.
Acceptable for credit: CSU
54 hours Laboratory
This course is designed to teach techniques of taping, wrapping, stretching and soft tissue management to facilitate prevention and rehabilitation of athletic injuries. This course will accompany PET 330.

PET 334 Practical Applications in Athletic Training/Sports Medicine **3 Units**

Formerly: PET 30A

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course is designed to meet the educational needs of students wishing to transfer to a curriculum athletic training program. Curriculum athletic training programs are very structured educational programs closely monitored by the National Athletic Trainers Association. The course will cover athletic training room management, advanced taping and first-aid skills, injury evaluation and rehabilitation.

PET 342 Theory of Baseball **2 Units**

Formerly: PET 17

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed towards advanced analysis of baseball. Focus is placed on analysis and instruction of individual skills and team concepts. Special emphasis will be placed on a model for instruction. Specific areas of emphasis will include but not be limited to: team selection, fund raising, facility development, practice organization, individual fundamentals and drills to develop those fundamentals, team fundamentals (Bunt defenses, cutoffs and relays, pick-offs, 1st and 3rd defenses) and drills to develop those fundamentals, conditioning and strength development, charting and scouting. This course may be taken twice for credit.

PET 346 Theory of Basketball **2 Units**

Formerly: PET 18

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
The course will give the students the opportunity to gain an understanding of coaching basketball beginning with conditioning for the pre-season and the regular season. Additionally, students will gain an understanding of how to teach basic fundamentals, learn various strategies including team offense and defense. Finally, students will gain an understanding of the collegiate rules. This course may be taken twice for credit.

PET 348 Theory of Dance **2 Units**

Formerly: PET 31

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
This is an introduction to the history and theory of Ballet, Modern, and Jazz Dance forms. Students will explore the role of dance in the educational system and in our society. Students will learn the differences and similarities of the three different dance forms. The art of choreography strategies will be explored with the three different forms. This course may be taken twice for credit.

PET 352 Theory of Football 2 Units

Formerly: PET 19

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
This course will overview current offensive and defensive schemes being utilized by teams at both the community college and four year level. These concepts will be broken down into the various components that makes each function as a unit, i.e. Offensive: Running Backs, QBS, Wide-Outs, Tight Ends, and Interior Line; Defense: Secondary, Outside Line Backers, Inside Linebackers and Defense Line. There will also be an intensive analysis of the kicking game, and how it is interwoven into the whole game plan. This course may be taken twice for credit.

PET 354 Theory of Soccer 2 Units

Formerly: PET 28

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
2 hours Laboratory
This course will give the students the opportunity to gain an understanding of coaching soccer beginning with conditioning for the preseason. In addition, students will gain an understanding of how to teach basic fundamentals, learn various strategies, including team offense; defense, students will gain an understanding of collegiate rules, and Federation of International Football Association laws. This course may be taken twice for credit.

PET 360 Theory of Softball (Fast-Pitch) 2 Units

Formerly: PET 25

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed toward advanced analysis of softball. Focus is placed on analysis and instruction of individual skills and team concepts; specific area of emphasis will include, but not be limited to, team selection, fund raising, facility development, practice organization, individual fundamentals, and drills to develop those fundamentals, along with team building fundamentals and drill to develop those qualities. Also included will be analysis of various coaching techniques, theories and philosophy. This course may be taken two times for credit.

PET 364 Theory of Swimming 2 Units

Formerly: PET 29

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Laboratory
This course covers all aspects of competitive swimming, including the scientific principles of stroke biomechanics, physiology, and psychology of training, workout design, and meet management. The course will include a review of current regulations of the National Collegiate Athletic Association and the Commission of Athletics. This course may be taken twice for credit.

PET 365 Theory of Water Polo 2 Units

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed for advanced analysis of water polo. Focus is placed on analysis and instruction of individual fundamental 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 NCAA and COA. This course may be taken twice for credit.

PET 366 Theory of Tennis, Tactics and Strategy 2 Units

Formerly: PET 20

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
This course will examine the United States Tennis Association's six basic components of its player development program. Emphasis will be placed upon practical application of these components to competitive and recreational tennis. In addition, students will study 'knotty' problems that have occurred in tennis and which rules apply. Lastly, students will learn strategies and which tactics to utilize to implement those strategies. This course may be taken twice for credit.

PET 370 Theory of Track and Field 2 Units

Formerly: PET 21

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
The Track and Field theory course is a lecture/discussion to enhance the student's knowledge on all aspects of the sport, with prominence on the understanding of movement skills. The emphasis will be placed on techniques, training methods, rules and strategies for successful performance in track and field. This course may be taken two times for credit.

PET 374 Theory of Volleyball 2 Units

Formerly: PET 26

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
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. This course may be taken twice for credit.

PET 376 Theory of Wrestling 2 Units

Formerly: PET 23

Prerequisite: None
Acceptable for credit: UC (all PET courses, maximum 8 units)/CSU
36 hours Lecture
This course is designed toward advanced analysis of wrestling. Focus is placed on analysis and instruction of individual wrestling skills and team concepts. Specific areas of emphasis will include, but not be limited to team selection, fund raising, facility development, practice organization, individual fundamentals and drills to develop those fundamentals. Also included will be analysis of various coaching techniques, theories and philosophy. This course may be taken twice for credit.

PET 497 Internship in Physical Education Theory 1-4 Units

Formerly: PET 48

Prerequisite: PET 330 and 331 or concurrent enrollment in PET 330 and 331, or proof of knowledge and skills of preventative taping and recognition of basic athletic injuries.
Acceptable for credit: CSU
18 hours Lecture; 300 hours Laboratory
The student/athletic trainer will be exposed to a hands-on philosophy to the Athletic Training profession. Exposure to soft tissue techniques, advanced athletic taping and wrapping, emergency scenarios, physiology of injury recovery and rehabilitation programs as prescribed by the teams physicians and supervision by a certified athletic trainer. Units are awarded on the basis of one unit per 60 hours of unpaid work or 75 hours of paid work. This course may be taken four times for credit.

Sports (SPORT)

SPORT 90 Academic Study Skills for Student Athletes .5-3 Units

Formerly: PER 252

Prerequisite: Must be an athlete in an intercollegiate sport at Sacramento City College.
9 hours Lecture; 162 hours Laboratory
This lecture/lab course is designed to assist the student athlete in acquiring basic study skills and work habits to gain success in the classroom. In addition, the student-athlete will learn and apply motivational and time/stress management techniques. Nine (9) lecture hours will be mandatory regardless of the unit value enrolled. This is an open entry, open exit course. A student can register for the course up to the ninth (9) week of the semester. The course may be taken four times for credit for a maximum of three (3) units.

SPORT 300 Baseball, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced baseball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletics competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 310 Basketball, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced program designed to provide specialized training for competition against other community college teams. Demonstration of fundamental and advanced skills, adherence to rules and etiquette of basketball, and execution of team strategy will be expected of all students. This course may be taken three times for credit.

SPORT 315 Basketball, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced basketball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 320 Cross Country, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
The advanced cross country course is a program providing specialized training for competition against other community college teams. Every student will be taught the fundamentals, advanced techniques, and strategy to be able to perform at the intercollegiate athletic competition level. This course may be taken three times for credit.

SPORT 325 Cross Country, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
The advanced cross country class is a program providing specialized training for competition against other community college teams. Every student will be taught the fundamentals, advanced techniques, and strategy to be able to perform at the intercollegiate level. This course may be taken three times for credit.

SPORT 330 Football, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced football team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 345 Golf, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced golf team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 355 Soccer, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced soccer team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 365 Softball, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced softball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 370 Swimming and Diving, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced swimming and diving team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 375 Swimming and Diving, Intercollegiate-Women 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced swimming and diving team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 380 Tennis, Intercollegiate-Men 2 Units

Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced tennis team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 385 Tennis, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced tennis team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 390 Track and Field, Intercollegiate-Men 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
The intercollegiate track and field class is an advanced program to provide specialized training for competition against other community college teams. Each student will be schooled in the fundamental and advanced technique for their specific events, along with the rules and strategy appropriate for intercollegiate competition. This course may be taken three times for credit.

SPORT 395 Track and Field, Intercollegiate- Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
The intercollegiate track and field class is an advanced program to provide specialized training for competition against other community college teams. Each student will be schooled in the fundamental and advanced technique for their specific events, along with the rules and strategy appropriate for intercollegiate competition. This course may be taken three times for credit

SPORT 405 Volleyball, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced volleyball team activity which provides competition against other community college teams. Fundamentals, rules, individual and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 415 Water Polo, Intercollegiate-Women 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced water polo team activity which provides competition against other community college teams. Fundamentals, rules, and/or team strategy appropriate to intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

SPORT 420 Wrestling, Intercollegiate-Men 2 Units
Formerly: PER 4

Prerequisite: Prior to enrollment the student must demonstrate intercollegiate athletic skills level as determined by a tryout conducted by the coaching staff.
Acceptable for credit: UC/CSU
180 hours Laboratory
This is an advanced wrestling team activity which provides competition against other community college teams, or Frosh/Soph teams from four-year institutions. Techniques, rules, strategies and conditioning appropriate for intercollegiate athletic competition will be expected of the competitors. This course may be taken three times for credit.

Team Activities (TMACT)

TMACT 300 Soccer, Indoor 1 Unit
Formerly: PER 1

Prerequisite: None.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Indoor Soccer is a physical education course that will cover the basic fundamentals and techniques of the game. Rules, strategy, and social etiquette will also be included. This course may be taken four times for credit.

TMACT 302 Soccer - Outdoor 1 Unit

Formerly: PER 1

Prerequisite: None
Advisory: for Intermediate Soccer, Beginning soccer skills; Advisory for Advanced Soccer is Intermediate soccer skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Soccer covers the fundamentals of the activity. Rules, scoring, position play, tactics, etiquette, and basic skills in trapping, passing, heading, and dribbling are taught. In outdoor soccer, the basic fundamentals and techniques of the game are included along with rules, strategy, and etiquette. In intermediate soccer, the basic fundamentals, rules, etiquette and systems of play are reviewed to enhance the student's understanding and ability of the game. In advanced soccer, a review of the game and game techniques is followed by additional game playing and drills.

TMACT 310 Baseball 1 Unit

Formerly: PER 1

Prerequisite: for Beginning Baseball, None.
Advisory: for Intermediate, Beginning Baseball with a grade of "C" or better; Prerequisite for Advanced: Intermediate Baseball with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Baseball covers the fundamentals, rules, and etiquette of the game. Intermediate baseball will cover techniques of the game, rules, and strategy. Individual and team techniques will be stressed. Students will participate in advanced individual and team techniques in relationship to baseball strategy. This course may be taken four times for credit.

TMACT 320 Basketball 1 Unit

Formerly: PER 1

Prerequisite: for Basketball, none; Prerequisite: for Intermediate, the student must be able to demonstrate fundamental basketball skills; Prerequisite for Advanced: Intermediate Basketball with a grade of "C" or better or equivalent skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Basketball covers the fundamentals, rules, tactics, and etiquette of the game. In intermediate basketball, a review of the basic fundamentals, tactics, rules, and etiquette will be provided. Systems of play to enhance the student's understanding and ability will be covered. Students will participate in advanced individual and team techniques in relationship to basketball strategy. This course may be taken four times for credit.

TMACT 330 Volleyball 1 Unit

Formerly: PER 1

Prerequisite: for Beginning, none; Prerequisite for Intermediate: Beginning Volleyball with a grade of "C" or better; Prerequisite for Advanced: Beginning and Intermediate Volleyball with a grade of "C" or better.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Volleyball will cover the fundamentals of volleyball. Instruction on the pass, set, spike, serve, and block will be provided. Rules, etiquette, and strategy for a six-person team play will be taught. In beginning volleyball, the basic fundamentals and techniques of the game will be reviewed. Beginning level offense, defense, and strategy will be provided as well as rules and etiquette. In intermediate volleyball, intermediate level offense, defense, and strategy will be introduced. In advanced volleyball, advanced level offense, defense, and strategy will be covered. Highly competitive drills and games will be included.

TMACT 334 Grass Volleyball 1 Unit

Formerly: PER 1

Prerequisite: None
Advisory: Beginning volleyball skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
In beginning grass volleyball, the basic fundamentals and techniques of 2 vs. 2 outdoor volleyball are taught.

TMACT 336 Competitive Grass Volleyball 1 Unit

Formerly: PER 1

Prerequisite: Successful completion of Beginning Grass Volleyball or be a "B" rated outdoor USVBA player.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
In intermediate/advanced competitive grass volleyball, the basic fundamentals and techniques of 2 vs. 2 outdoor volleyball will be reviewed. Highly competitive drills and games will be included.

TMACT 340 Football 1 Unit

Formerly: PER 1

Prerequisite: for Advanced, Intermediate football skills or equivalent skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Football covers the fundamentals, techniques, rules, strategy, and etiquette of the game. In advanced football, a review of the basic fundamentals, techniques, rules, strategy, and etiquette of the game will be provided. Students will participate in systems of play to enhance their understanding and ability of the game.

TMACT 350 Softball, Fast Pitch **1 Unit**

Formerly: PER 1

Prerequisite: None
Advisory: Advanced softball skill level.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Fast-pitch softball is a class designed for the competitive player. This physical education class will teach skills, strategies, and rules of Fast-Pitch Softball. This course may be taken four times for credit.

TMACT 352 Softball, Slow Pitch **1 Unit**

Formerly: PER 1

Prerequisite: Beginning softball skills.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Slow Pitch Softball is a physical education course to teach basic fundamentals, rules, and strategies. This course is designed for students who wish to participate in recreational softball. This course may be taken four times for credit.

TMACT 364 Intramural Sports **1 Unit**

Formerly: PER 3

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Laboratory
For students interested in increasing their own sports skills, and in promoting particular sports among other students. Intended to provide recreational, competitive, and instructional opportunities other than current ongoing programs. This course may be taken four times for credit.

TMACT 366 Spirit Squad **2 Units**

Formerly: PER 8

Prerequisite: Students must be able to demonstrate cheerleading and dance skills at the intermediate level and possess performance experience.
Acceptable for credit: CSU
72 hours Laboratory, 36 hours Laboratory TBA
This course is for cheerleaders and/or students interested in becoming cheerleaders at Sacramento City College. Warm-up techniques, cheerleading drills, dance routines and stunting techniques will be taught. Performing at school athletic events and rallies is required on a regular basis throughout the semester. Students must carry 12 units and maintain a 2.0 grade point average. This course may be taken four times for credit.

TMACT 370 Water Polo **1 Unit**

Formerly: PER 1

Prerequisite: Students must achieve a passing standard on the swim test of 50 yards of freestyle with proficient breathing to the side.
General Education: AA/AS Area E1
Acceptable for credit: UC/CSU
54 hours Laboratory
Water Polo will cover the basic fundamentals, skills, and techniques of the game. Rules and strategies will also be included in the course. This course may be taken four times for credit.

Physical Therapist Assistant P T A

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

Career Opportunities

This program prepares the student for employment as a physical therapist assistant. Physical therapist assistants work under the supervision of physical therapists in a wide variety of health care settings, which include hospitals, rehabilitation centers, private practices, skilled nursing and extended care facilities. They treat clients with movement, strength, and coordination disorders in order to improve function, decrease pain, and increase independence. The scope of practice includes activities such as administration of physical modalities, therapeutic exercise, ambulation training, and assisting patients with transfer and functional activities. Physical therapist assistants must recognize common medical disorders and be able to assess whether patients are progressing appropriately with the treatment plan determined by the physical therapist.

Recommended Preparation

High school and college preparatory courses including algebra, biology, chemistry, and physiology are recommended. Volunteer work or observational experience in a physical therapy clinic is recommended in order to assist students in making a career decision. Medical Language (AH 110) is advised prior to enrollment in the program.

Program Information

The physical therapist assistant (PTA) program is at the Associate in Science Degree level, which requires completion of the required program plus general education requirements. These include prerequisite courses (14.5 units), PTA courses (32.5 units), Allied Health courses (3 units), and specific general education courses required for the program (9 units). Students must also take additional courses to meet graduation requirements of the college (10-19 units). PTA and Allied Health courses are offered Monday through Thursday in the evenings, 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 affiliations, at the end of fall and spring semesters of the second year. Clinical sites are located throughout the greater Sacramento and Northern California region.

Enrollment Requirements

Enrollment in the Physical Therapist Assistant program is based on completion of prerequisite courses and submission of application and official transcripts to the Science & Allied Health Division. Approximately 30 students are enrolled in the program annually. Prerequisite courses include:

1. BIOL 430 & 431 (Anatomy/Physiology- 10 semester units with labs), or equivalent courses, within 10 years with a GPA of 2.5 or better.
2. Completion of PTA 100 (Introduction to PTA) and ENGWR 300 (or ESLW 340) with grades of "C" or better and a cumulative GPA of 2.5 in these two courses.
3. 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.
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

Students may submit applications between March 1 and April 15 to be considered for enrollment for the Fall semester. Students who meet the enrollment requirements will be eligible for 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 year. Two-thirds of the class will be selected from all eligible applicants. After receiving notice of acceptance for enrollment, students will be required to submit a completed physical examination, TB test, evidence of immunizations, first aid, and current CPR certificate for health care

personnel. Students must also provide documentation of capability to perform essential job-related functions of a physical therapist assistant.

Accreditation
The Physical Therapist Assistant program has been granted accreditation by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (APTA) effective November 1, 2000, through December 31, 2010.

Licensure
Graduates of this program are eligible for the National Examination for Physical Therapist Assistants. After successful completion of the examination, graduates are licensed to work as physical therapist assistants in California.

Additional Information
Informational meetings are held several times each semester and provide prospective students with information on program prerequisites, enrollment process, and other facts about the program and the field of physical therapy. Current information on program policies and procedures, clinical sites, and data on graduation rates, licensure, and employment may be obtained through the program coordinator. Call (916) 558-2298 or visit the SCC Web Site at http://www.scc.losrios.edu and follow the links to the Physical Therapist Assistant program.

Transfer Students
Students from other accredited PTA programs may apply to transfer to the Sacramento City College PTA program. Enrollment depends upon evidence of completion of equivalent academic and clinical course work, and on space available in the program.

Required Program

Prerequisite Courses: **Units**

PTA 100, Introduction to Physical Therapist Assistant 1.5
BIOL 430, Anatomy/Physiology 5
BIOL 431, Anatomy/Physiology 5
ENGWR 300 (OR ESLW 340), College Composition 3
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.

Physical Therapist Assistant Courses:

PTA 110, Kinesiology for PTA students 3
PTA 111, Kinesiology Lab for PTA students 2
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 Basic Clinical Practice 3
PTA 130, Intermediate Procedures - Physical Therapy Modalities and Procedures 1
PTA 140, Therapeutic Exercise - Exercise Programs, Protocols and Procedures 3
PTA 150, Functional Activities and Gait - Activities of Daily Living and Gait Training Techniques 3
PTA 151, Advanced Procedures - Advanced Modalities and Treatment Procedures 1
PTA 141, Disorders II - Nervous System Disorders 2
PTA 142, Clinical Practicum I 4
PTA 152, Clinical Practicum II 4

Allied Health Courses:

AH 106, Communication for Allied Health Careers 2
AH 100, Professional Ethics of Health Team Members 1

General Education and Science Courses Required for the PTA Program:

PSYC 392 OR FCS 324, Human Development: A Life Span 3
SOC 300, Introductory Sociology 3
FCS 340, Nutrition 3

Graduation Requirements:
Social Sciences - American Institutions 3
Ethnic Multicultural Studies 0-3
(A selected 3-unit history course may fulfill both the American Institutions and Ethnic Multicultural Studies requirements.)
Humanities 3
Language/Rationality - Communication and Analytical Thinking 3
Living Skills - Physical Education 1
Competency in Basic Skills - Math and Reading 0-6

Total Units Required **69-78**

Sequencing of PTA classes:

First Year, Fall Semester

PTA 110, 111, AH 100

First Year, Spring Semester

PTA 120, 121, 122

Summer Semester

PTA 130, AH 106

Second Year, Fall Semester

PTA 140, 141, 142

Second Year, Spring Semester

PTA 150, 151, 152

Associate in Science (A.S.) Degree
The Associate in Science Degree may be obtained by completion of all components of the required program.

Physical Therapist Assistant (PTA)

PTA 100 Introduction to Physical Therapist Assistant 1.5 Units

Formerly: PTA 50

Prerequisite: None
27 hours Lecture
This course provides an introduction to the field of physical therapy and the role of the physical therapist assistant within the health care delivery system. Definitions of physical therapy, history and development of the profession, and the diverse types of clinical practice and employment settings are explored. The mission and goals of the professional organization, standards of practice, laws and regulations, and licensure requirements are introduced. Course requirements include an independent observational experience at a physical therapy facility and a written paper.

PTA 110 Kinesiology for PTA Students 3 Units

Formerly: PTA 52

Prerequisite: Enrollment into the Physical Therapist Assistant Program and completion of PTA 100, BIOL 430 and 431, and ENGWR 300 (or ESLW 340) with grades of "C" or better, and a cumulative GPA of 2.5 in these courses; completion of ENGRD 110 (or eligibility for ENGRD 310, as determined by the reading assessment process) for all applicants who do not have an A.A. Degree or higher.
Corequisite: Concurrent enrollment in PTA 111.
Advisory: Allied Health 110.
54 hours Lecture
This course involves utilizing knowledge of the skeletal, articular, muscular, and nervous systems to analyze human posture and movement. Components of joint structure and function, muscle action, motor and reflexive development, balance mechanisms, and sensory influence are applied to analysis of spinal and extremity motions, as well as common functional activities. Theories related to kinetics and kinematics of gait are included. Kinesiological principles are presented as they apply to the practice of physical therapy, and the roles and responsibilities of the physical therapist assistant. A written paper is required.

PTA 111 Kinesiology Laboratory for PTA Students 2 Units

Formerly: PTA 53

Prerequisite: Enrollment into the Physical Therapist Assistant Program and completion of PTA 100, BIOL 430 and 431, and ENGWR 300 (ESLW 340) with grades of "C" or better, and a cumulative GPA of 2.5 in these courses; completion of ENGRD 110 (or eligibility for ENGRD 310, as determined by the reading assessment process) for all applicants who do not have an A.A. Degree or higher.
Corequisite: Concurrent enrollment in PTA 110.
108 hours Laboratory
This course utilizes a problem solving approach to analysis of human movement emphasizing application of kinesiological principles to the field of physical therapy, and the role of the physical therapist assistant. Students practice procedures for performing and recording goniometric measurements, tests for flexibility/muscle length, muscle performance, sensation, and analysis of posture and gait. Physical therapy procedures such as range of motion, positioning and draping, and body mechanics are introduced. The influence of neuromotor development, balance mechanisms, and sensory systems on posture and movement is included. Students practice skills and activities with each other in a laboratory setting under instructor supervision. A class presentation is required.

PTA 120 Beginning Procedures - Physical Therapy Modalities and Procedures 3.5 Units

Formerly: PTA 54

Prerequisite: Prerequisite: PTA 110 and 111 with grades of "C" or better.
45 hours Lecture; 54 hours Laboratory
This course introduces the theory and application of physical therapy modalities and procedures to include thermal agents and mechanical modalities, traction, hydrotherapy, external compression, wound management, transfers and gait training, and utilization of standard precautions. Students develop skill in gathering data regarding vital signs, functional ability in gait and transfers, pain status, and integumentary integrity. Documentation procedures, including use of medical abbreviations and terminology, are practiced. Through laboratory activities and problem-solving with case studies, students develop skills in utilizing modalities and procedures in comprehensive implementation of the physical therapy treatment plan.

PTA 121 Disorders I - Selected DisordersCommonly Seen in Physical Therapy 3 Units

Formerly: PTA 55

Prerequisite: Prerequisite: PTA 110 and PTA 111 with grades of "C" or better.
54 hours Lecture
This course is designed as an overview of musculoskeletal, cardiovascular, respiratory, renal, endocrine, immune and integumentary disorders relevant to the practice of physical therapy. Additional topics include: infectious disease, genetic disorders, neoplasms, and the effect of developmental, psychosocial, and cultural factors. Etiology, signs and symptoms, prognosis, and medical/surgical interventions for disorders are surveyed. Approaches to physical therapy assessment and treatment are introduced. Emphasis is placed on utilization of knowledge of medical disorders by physical therapist assistants within the context of implementing a comprehensive treatment plan.

PTA 122 Introduction to Clinical Practice 3 Units

Formerly: PTA 56

Prerequisite: Prerequisite: PTA 110 and PTA 111 with grades of "C" or better.
18 hours Lecture; 108 hours Laboratory
This course provides students with the initial opportunity to observe physical therapy practice and perform selected delegated responsibilities with guidance, direction, and supervision. Students complete 56 hours in each of two different clinical settings. Assignments are determined by the program coordinator, and may be in acute, sub-acute, out-patient, skilled nursing and rehabilitation, or other type of physical therapy practice. Seminar hours include orientation to the clinical practice setting, discussion of clinical experiences and clinical practice issues, and self assessment of performance. The course is graded on a credit/no credit basis.

PTA 130 Intermediate Procedures, Physical Therapy Modalities and Procedures 1 Unit

Formerly: PTA 57

Prerequisite: Prerequisite: PTA 120, PTA 121, and PTA 122 with grades of "C" or better.
9 hours Lecture; 27 hours Laboratory
In this course, students will study the theory and application of massage, soft tissue mobilization techniques, biofeedback, and pneumatic compression pumps utilized by physical therapist assistants. Through laboratory practice and problem solving with case studies, students will develop skills in utilizing these modalities and procedures in comprehensive implementation of the physical therapy treatment plan.

PTA 140 Therapeutic Exercise - Exercise Programs, Protocols and Procedures 3 Units

Formerly: PTA 61

Prerequisite: PTA 130 with a grade of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course presents the theory, rationale, and implementation of therapeutic exercise procedures, programs, and protocols commonly used in physical therapy. Manual and mechanical approaches to stretching, strengthening, endurance, balance, and coordination are included. Principles of teaching and learning, theories of motor control and motor learning and neuro-development approaches to treatment are introduced. Documentation practice is continued and expanded to include home programs and progress summaries. Knowledge of kinesiology and medical disorders is integrated as students apply therapeutic exercise principles to collaborative case-based learning activities that emphasize the role of the physical therapist assistant in implementing a comprehensive physical therapy treatment plan.

PTA 141 Disorders II - Nervous Systems Disorders 2 Units

Formerly: PTA 65

Prerequisite: PTA 130 with a grade of "C" or better.
36 hours Lecture
This course is designed as an overview of central and peripheral nervous system disorders relevant to the practice of physical therapy. Etiology, signs and symptoms, prognosis, and medical/surgical interventions are surveyed. Approaches to physical therapy assessment and treatment are introduced. Emphasis is placed on utilization of knowledge of medical disorders by physical therapist assistants within the context of implementing a comprehensive treatment plan.

PTA 142 Clinical Practicum I 4 Units

Formerly: PTA 66

Prerequisite: PTA 130, AH 106 and 100 with grades of "C" or better.
240 hours Laboratory
This course provides students with the opportunity to perform delegated patient care responsibilities in a supervised physical therapy clinical setting. This is the first full-time clinical assignment during the program. Students complete a clinical affiliation of six weeks (40 hours per week) at a facility assigned by the program coordinator. The placement may be in an acute, sub-acute, out-patient, skilled nursing and rehabilitation, or other type of physical therapy practice. Additionally, six seminar hours are required. The course is graded on a credit/no credit basis.

PTA 150 Functional Activities & Gait - Activities of Daily Living and Gait Training 3 Units

Formerly: PTA 62

Prerequisite: PTA 140, PTA 141, and PTA 142 with grades of "C" or better.
36 hours Lecture; 54 hours Laboratory
This course presents the application of functional exercise and gait activities, with emphasis on the physical therapist assistant's role in comprehensive treatment of patients with cardiopulmonary disorders, adult or pediatric neurological disorders, or amputation. Data collection activities related to assessing cardiopulmonary status, functional abilities, gait, equipment and assistive devices, and home and community environment are included. Students practice implementation of treatment to include endurance training, pulmonary hygiene techniques, functional activities and gait, activities of daily living, developmental activities, prosthetics and orthotics, management of wheelchairs and other equipment, and patient/family education.

PTA 151 Advanced Procedures- Advanced Modalities and Treatment Procedures 1 Unit

Formerly: PTA 64

Prerequisite: PTA 140, 141, and 142 with grades of "C" or better.
9 hours Lecture; 27 hours Laboratory
This course introduces theory and application of electrotherapeutic modalities utilized by physical therapist assistants to include high volt, interferential, iontophoresis, transcutaneous nerve stimulation, and neuromuscular stimulation. Practice issues such as the role of the physical therapist assistant within the health care delivery system, application of laws and ethical principles, administrative activities, and social responsibility are explored. Procedures for license application, resume preparation, and interviewing are included.

PTA 152 Clinical Practicum II 4 Units

Formerly: PTA 67

Prerequisite: PTA 140, 141, and 142 with grades of "C" or better.
240 hours Laboratory
This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. This is the second full-time clinical assignment during the program. Students complete a clinical affiliation of six week (40 hours per week) at a facility assigned by the program coordinator. The placement may be in an acute, sub-acute, out-patient, skilled nursing and rehabilitation, or other type of physical therapy practice. This assignment will be at a facility which differs from the first full-time clinical assignment. Additionally, six seminar hours are required. The course is graded on a credit/no credit basis.

Physics PHYS

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

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

PHYS 310 Conceptual Physics 3 Units

Formerly: PHYS 10

Prerequisite: Eligibility for ENGWR 100 and ENGRD 310.
General Education: AA/AS Area A.
Acceptable for credit: UC (no credit if taken after PHYS 350 or 410)/CSU
54 hours Lecture
This course presents the physical laws that tie together the diverse phenomena of nature. A descriptive approach, making limited use of basic algebra, is used to increase the students' understanding of the everyday physical world.

PHYS 350 General Physics 4 Units

Formerly: PHYS 5A

Prerequisite: None
Advisory: High school trigonometry or MATH 334.
General Education: AA/AS Area A.
Acceptable for credit: UC (pending - see a counselor for updated information)/CSU
54 hours Lecture; 54 hours Laboratory
This course is a non-calculus based survey of general physics. It is designed for biological science students, including those in pre-medical, pre-dental, optometry, agriculture and forestry programs. Topics include kinematics, Newton's Laws, dynamics of rigid bodies, work and energy, momentum, rotational motion, fluids, and oscillatory motion.

PHYS 360 General Physics 4 Units

Formerly: PHYS 5B

Prerequisite: PHYS 350 with a grade of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory
This course is non-calculus based survey of general physics. It is designed for biological science students, including those in pre-medical, pre-dental, optometry, agriculture and forestry programs. Topics include electric charge, electric fields, AC and DC circuit theory, electromagnetism, optics, wave theory and quantum physics.

PHYS 410 Mechanics of Solids and Fluids 5 Units

Formerly: PHYS 4A

Prerequisite: None
Corequisite: MATH 401.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory; 18 hours Discussion
This course covers linear and rotational motion, Newton's Laws, dynamics of rigid bodies, gravitation, harmonic motion and fluids. This course is for physics, mathematics, chemistry, architecture, engineering, and computer science majors.

PHYS 420 Electricity and Magnetism 5 Units

Formerly: PHYS 4B

Prerequisite: PHYS 410 and MATH 401 with grades of "C" or better.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory; 18 hours Discussion
The course presents an in-depth treatment of electricity and magnetism and stresses problem-solving. Topics covered include charge and electric force, electric fields, electrical potential, magnetism, electromagnetic induction, DC and AC circuit theory. This course is physics, mathematics, chemistry, architecture, engineering, and computer science majors.

PHYS 430 Heat, Waves, Light and Modern Physics 5 Units

Formerly: PHYS 4C

Prerequisite: PHYS 410 with a grade of "C" or better.
Corequisite: MATH 402.
General Education: AA/AS Area A.
Acceptable for credit: UC/CSU
54 hours Lecture; 54 hours Laboratory; 18 hours Discussion
Topics covered are thermodynamics, wave theory, light and sound, geometrical and physical optics (including lenses and mirrors), quantum physics and high-energy physics. This course is intended for physics, mathematics, chemistry, architecture, and engineering majors. (PHYS SEQ B Sum of CAN Phys 8,12, and 14)

PHYS 494 Topics in Physics .5-4 Units

Formerly: PHYS 22

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture; 54 hours Laboratory
This course is designed to enable both science and non-science students to learn about recent developments in physics. Selected topics would not include those that are part of current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

Political Science POL S

Division of Behavioral and Social Science

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

POLS 301 Introduction to Government: United States 3 Units

Formerly: POLS 1

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B1.
Acceptable for credit: UC (POLS 301 or 481, maximum one course)/CSU
54 hours Lecture
This course will examine principles and problems of government, the political process, and democracy as practiced in the United States. Fulfills state requirements in federal, state, and local government.

POLS 302 Introduction to Government: Foreign 3 Units

Formerly: POLS 2

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
The political systems of selected nations such as Great Britain, France, Germany, Russia, Japan, Mexico, Peoples' Republic of China, India, South Africa, and Cuba are analyzed. The course will also compare the formation of political institutions, the role of political culture, political parties, and public policy.

POLS 310 International Relations 3 Units

Formerly: POLS 10

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2.
Acceptable for credit: UC (POLS 310 or 480, maximum one course)/CSU
54 hours Lecture
This course will examine the problems, motivating forces, and techniques of conflict resolution among actors within the global nation-state system. Particular emphasis is placed on comparing perspectives among developed and underdeveloped nations.

POLS 320 Introduction to Political Theory 3 Units

Formerly: POLS 3

Prerequisite: None
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the theoretical approaches to politics and ways of thinking about politics, covering important thinkers and topics during the ancient, medieval, and modern periods.

POLS 322 Political Ideologies 3 Units

Formerly: POLS 15

Prerequisite: None
Advisory: Eligibility for ENGWR 300 or ENGWR 100 or ESLR 320 and ESLW 320 is advised.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course will cover comparative, conceptual, and historical analyses of competing ideological approaches to government. Emphasis will be on the theories, values, and assumptions that make up a political ideology and the effect of such theories on a political system.

POLS 340 Women in Politics 3 Units

Formerly: POLS 19

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
Topics of this course include a study of the past and the current influences on the political and legal status of women; an exploration of women's participation in the political process; and an examination of political theory and strategy as it relates to women.

POLS 480 Introduction to International Relations - Honors 3 Units

Formerly: POLS 10H

Prerequisite: Admission to Honors Program required.
Advisory: Eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC (POLS 310 or 480, maximum one course)/CSU
54 hours Lecture
This course will examine the principles and problems of government, the political process and democracy as practiced in the United States. The class is conducted in a seminar format and requires a higher level of student academic engagement of course preparation with at least four texts and readers. This section uses an intensive instructional methodology and is designed to maximize the level of students' depth of subject-based knowledge. This course fulfills federal, state, and local government content requirements.

POLS 481 Introduction to Government: United States - Honors 3 Units

Prerequisite: Admission to the Honors Program; 3.0 GPA or eligibility for ENGWR 300.
General Education: AA/AS Area B1
Acceptable for credit: UC (POLS 301 or 481, maximum one course)/CSU
54 hours Lecture
This course will examine the principles and problems of government, the political process and democracy as practiced in the United States. The class is conducted in a seminar format and requires a higher level of student academic engagement of course preparation with at least four texts and readers. This section uses an intensive instructional methodology and is designed to maximize the level of students' depth of subject-based knowledge. This course fulfills federal, state, and local government content requirements.

POLS 494 Topics in Political Science (Same as HIST 494) .5-4 Units

Formerly: POLS 47

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 320.
General Education: AA/AS Area B2
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture
Content will differ each time course is offered. The objective is to focus content on issues of local, national or international significance at the time of offering course. (Credit for History 494 and Political Science 494, but not both.)

POLS 497 Internship in Political Science 1-4 Units

Formerly: POLS 48

Prerequisite: None
Advisory: Concurrent enrollment in or completion of courses related to the major.
Acceptable for credit: UC/CSU
18 hours Lecture; 75 hours Laboratory
18 hours lecture and 75 hours of related paid activity or 60 hours of volunteer activity for one unit; 75 or 60 hours of activity for each additional unit. This course consists of a supervised internship and study in political, governmental, or related organizations. This course may be repeated for credit as long as there is new or expanded learning on the job.

Pre-Professional Majors

Sacramento City College strongly advises prospective students, who are preparing to study a professional major, to consult with a counselor.

Law

"Pre-law" is not a major but rather a term that describes a student interested in applying for admission to a law school. There are no specific major or specific courses for pre-law students. A student's overall GPA is important when applying for admission to a law school; therefore, a pre-law student should consider a major that he/she enjoys and can successfully complete. It is advisable to consider a major that can be used as an alternative to law school or can be used in coordination with the law degree.

As a pre-law student, you should plan a course of study that will give you a broad cultural background, develop the ability to think critically, gain an understanding of people and institutions, and know how to gather and weigh facts to solve problems and think creatively. They should be able to read rapidly with comprehension, express themselves clearly, completely, and concisely, both orally and in writing. Suggest curriculum should include: English, history, philosophy, mathematics and logic, science, economics, government, psychology, accounting, and speech.

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 good 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, 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 are not required to complete a prescribed undergraduate major. Many students have the misconception that baccalaureate and master degrees can be achieved for these majors called "pre-dental, pre-med, pre-optometry, pre-veterinary" - not true. A student's undergraduate degree can be achieved in any major; however, it is highly recommend that students select majors related to dentistry, medicine, optometry or veterinary medicine so appropriate courses completed will meet most admission requirements.

In addition to a good grade point average, professional schools base their selection on motivation; extracurricular activities, including work experience related to the health science; 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)

Education varies: at least 90 semester hours /120-140 quarter hours or 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

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 Courses: BIOL 402, 412; CHEM 400, 401, 425, 426; MATH 350, 351 or 400, 401; PHYS 350, 360; 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
The transfer college program in Social Welfare is designed for those with a bachelor's degree who expect to enter such fields as public social services, correctional services, and certain group work activities; or those with a master's degree in Social Welfare (MSW) who expect to work in such fields as family counseling, medical and psychiatric social work, or child welfare services.

The prescribed pattern for the major generally consists of all upper division courses. Students in the community colleges are advised to pursue a program leading to a bachelor's degree in a transfer college of their choice. Programs in the lower-division (freshman and sophomore levels) should include a strong emphasis in such social sciences as anthropology, psychology and sociology, and possibly a language, such as Spanish.

Veterinary Medicine
Veterinary medicine education requires a minimum of seven years of college courses (three or four years of pre-veterinary medicine study and four years in veterinary medicine school).

Admission to veterinary medicine school is based on a Bachelor's degree. However, admission may be granted after completion of 90 semester units. Pre-veterinary medicine students must complete courses in written and/or oral English; chemistry, biology, physics, statistics, and human behavior.

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

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

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.

Program Information:

Psychology majors are encouraged to engage in a number of community partnerships, including participation in UC Davis Psychiatry Grand Rounds, volunteer service at a variety of mental health clinics, mentoring projects, and animal behavior education at the Sacramento Zoo. The Associate in Arts Degree may be obtained by completing the required program, plus general education requirements and sufficient electives for a total of 60 units.

Required Program	**Units**
PSYC 300: General Principles	3
PSYC 310: Biological Psychology	3
PSYC 320: Social Psychology	3
PSYC 335: Research Methods in the Behavioral Sciences	3
STAT 300: Introduction to Probability and Statistics	4
and	
One additional transfer-level psychology course	3
Total Units Required	**19**

PSYC 300 General Principles 3 Units

Formerly: PSYC 1

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area B2.
Acceptable for credit: UC (PSYC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course introduces students to foundation principles and current trends in the field of psychology. Concepts that are explored include methods of psychological inquiry, the biological basis of behavior, motivation, perception, consciousness, learning and memory, personality, socialization, and mental illness. This course is designed for psychology majors and other students who desire a broad overview of the field.

PSYC 310 Biological Psychology 3 Units

Formerly: PSYC 2

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100; PSYC 300.
General Education: AA/AS Area A.
Acceptable for credit: UC (PSYC 310 or 315, maximum one course)/CSU
54 hours Lecture
The primary focus of this course is on the human nervous system and how it functions to affect behavior. This course provides an in-depth examination of brain structure, neural development, neural communication, brain-endocrine interactions, and the specialization of brain function. To supplement the study of brain anatomy, students utilize sheep brains to identify major structures and divisions of the nervous system. Relationships between brain function and perception, movement, cognition, learning and memory, language, rhythms of sleep and activity, emotion, and consciousness are examined. The neural bases of mood, personality disorders, and psychosis are also addressed.

PSYC 315 Behavioral Biology 3 Units

Formerly: PSYC 30

Prerequisite: None
General Education: AA/AS Area A
Acceptable for credit: UC (PSYC 310 or 315, maximum one course/ CSU
54 hours Lecture
This course is an interdisciplinary examination of biological and psychological factors involved in behavior, with primary emphasis on human function.

PSYC 320 Social Psychology 3 Units

Formerly: PSYC 3

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores how individual people interact with and influence one another. Topics covered include impression formation, attraction, conformity, and aggression vs. prosocial behavior.

PSYC 335 Research Methods in Psychology 3 Units

Formerly: PSYC 4

Prerequisite: ENGWR 100 and PSYC 300 with grades of "C" or better.
Advisory: STAT 300.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course introduces students to the methods and ethics of doing research in the behavioral sciences, specifically psychology, from a theoretical and practical approach. The course includes designing and conducting both experimental and non-experimental studies, doing descriptive statistical analyses, hypothesis testing, and using a scientific style of writing to present the results. The projects in the laboratory portion of the course will provide opportunities to research various behavioral science topics of the student's interest and provide experience with "hands-on" data collection, data analysis, results interpretation and report writing.

PSYC 340 Abnormal Behavior 3 Units

Formerly: PSYC 15

Prerequisite: PSYC 300 or 350 with a grade of "C" or better.
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
In this course, students will explore the broad questions of normality and abnormality and investigate specific mental, emotional and behavioral difficulties. They will learn current approaches to psychological intervention including present community mental health practices. Course material considers the contribution of social, biological and psychological factors to the development and persistence of behavior disorders.

PSYC 342 Behavior Modification: Theory and Application 3 Units

Formerly: PSYC 32

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100; PSYC 300 or 350
General Education: AA/AS Areas B2, E2
Acceptable for credit: CSU
54 hours Lecture
This course is an analysis and modification of behavior through the use of operant and classical conditioning. The study of behavior modification techniques as they are used in schools, social service agencies, jobs, homes, and other institutions will be explored.

PSYC 350 Human Behavior 3 Units

Formerly: PSYC 7

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Areas B2, E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores the impact of psychological thought upon changing definitions of human nature; self-awareness and self-development through study of such topics as death, basic human needs, self-actualization, emotions, interpersonal relations, communication, personality, adjustment, values and attitudes.

PSYC 353 Psychology of Adjustment 3 Units

Advisory: Eligibility for ENGRD 310 and ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
In this course, students will explore the core concepts in psychology and apply them to everyday life experiences. The focus of this course will be on self-development and self-awareness, and students will learn how to use psychological concepts to live more fully and productively. Students will also learn to analyze and think critically about psychological theories and research, and they will learn to use these concepts in an informed manner. Topics include stress and coping, substance abuse, psychological disorders and treatment, motivation and emotions, learning and behavior change, attitudes and values, interpersonal relationships, and lifespan development.

PSYC 356 Human Sexuality 3 Units

Formerly: PSYC 25

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an overview of human sexuality from birth to adulthood. The subject will be examined from a cultural, physiological, sociological and psychological perspective in order to provide students with a solid base of information about sex and their own sexuality enabling them to make healthy and responsible choices and decisions throughout their lives.

PSYC 358 Principles of Interpersonal Relations 3 Units

Formerly: PSYC 40

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
54 hours Lecture
This course studies the principles involved in effective interpersonal relationships. Topics include interpersonal feedback, self-disclosure, the role of emotions in relationships, the art of listening, and the ability to challenge others toward growth or productivity. The focus of the course will be on concepts useful to the students in his/her face-to-face relationships at home, school, and work.

PSYC 360 Psychology of Women 3 Units

Formerly: PSYC 28

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course studies the psychological effects of society upon women. Emphasis is placed on developing an awareness of sex role, race stereotyping, sexual orientation and gender role development. The course is designed to give students an understanding of: the similarities and differences between genders; the origins of gender roles; the development of gender roles; and the effect of sexism.

PSYC 363 Psychology of Women in Film 3 Units

Formerly: PSYC 42

Prerequisite: None
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
From its earliest days, Hollywood has played an important role in shaping and reflecting cultural assumptions and fears. This course examines the assumptions and values that underlay the portrayal of women and the messages that medium conveys about the nature and role of femininity. In addition to viewing a variety of film genres, assignments will include readings from sociology, psychology, linguistics, and critical theory.

PSYC 367 Psychology of Minorities 3 Units

Formerly: PSYC 39

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course studies the psychological implications of the specific experiences of minorities; and exploration of certain key personality dynamics, identity, prejudice, defense, love and hate.

PSYC 370 Human Development: A Life Span (Same as FCS 324) 3 Units

Formerly: PSYC 18

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ENGRD 110.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will provide an overview of the physical, cognitive, social and emotional development, development from conception through the life span. The emphasis will be on the practical application of development principles. The course is designed as a foundation course for careers in educational, social, psychological, and medical fields.

PSYC 374 Psychology of Aging: Adult Development and Aging (Same as FCS 332 or GERON 302) 3 Units

Formerly: PSYC 26

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310 or ENGRD 110.
General Education: AA/AS Area E2.
Acceptable for credit: UC (PSYC 374 or FCS 330, maximum one course; PSYC 374 or SOC 335, maximum one course)/CSU
54 hours Lecture
This course will explore the description and explanation of the evolution of adult behavior over the life span. It will also include the study of the nature and changes of capabilities, skills, feelings, emotions, and social behavior with age. (Credit for FCS 332, PSYC 374 or GERON 302, but not for all three.)

PSYC 376 Personality 3 Units

Formerly: PSYC 33

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100; PSYC 300 or 350.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of major contemporary approaches to personality development. The emphasis will be on psychological health rather than illness, increasing self-awareness, the individual's interaction within the family, the community, and the larger society. Personality development in cross-cultural environments will be explored.

PSYC 382 Psychology of Career Development 3 Units

Formerly: PSYC 14

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course will examine psychological principles as they apply to career development. The course will use a life span development perspective to consider the importance of career selection and career development. Self-assessment of interest, personality factors, values and skills will assist the student in making and verifying career plans. The process of career selection, decision-making and

goal setting will be presented as well as how to conduct occupational research and job-hunting strategies.

PSYC 390 Psychology of Death and Dying 3 Units

Formerly: PSYC 9

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Areas B2, E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an investigation of beliefs, attitudes, anxieties and behaviors associated with dying and death. Included will be materials relevant to suicide, life-threatening illnesses, bereavement, euthanasia, and various philosophical views on the phenomenon of death.

PSYC 390.1 Psychology of Death and Dying: Introduction to Thanatology .5 Unit

Formerly: PSYC 9A

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 390.1-390.6)
9 hours Lecture
This is the introductory module to the three-unit Psychology of Death and Dying course. Students will examine the historical and cross-cultural views of the relationship between life and death. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course. If a student has taken a module, the course may be completed by enrolling in each of the remaining modules.

PSYC 390.2 Psychology of Death and Dying: Fear of Death .5 Unit

Formerly: PSYC 9B

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 390.1-390.6)
9 hours Lecture
This module in the three-unit Psychology of Death and Dying series explores the concept of fear regarding death. Students will analyze psychoanalytic, existential, and learning theories as they relate to death and dying. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

PSYC 390.3 Psychology of Death and Dying: Dying as a Process .5 Unit

Formerly: PSYC 9C

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 390.1-390.6)
9 hours Lecture
This module in the three-unit Psychology of Death and Dying series considers dying as a process by looking at various models and paradigms of dying. Special attention is given to caring for the terminally ill and hospice programs. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

PSYC 390.4 Psychology of Death and Dying: Death and the Family .5 Unit

Formerly: PSYC 9D

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 390.1-390.6)
9 hours Lecture
This module in the three-unit Psychology of Death and Dying series explores grief dynamics and the mourning process within the family. Other topics include family adjustment and re-organization. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

PSYC 390.5 Psychology of Death and Dying: Volitional Death .5 Unit

Formerly: PSYC 9E

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 390.1-390.6)
9 hours Lecture
This module in the three-unit Psychology of Death and Dying series presents a history and typologies of suicide. Causal theories, euthanasia and life-prolongation issues will also be discussed. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

PSYC 390.6 Psychology of Death and Dying: Economics and Legalities of Death .5 Unit

Formerly: PSYC 9F

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 390.1-390.6)
9 hours Lecture
This module in the three-unit Psychology of Death and Dying series will examine the economic, legal, and interment issues surrounding death. Students will also discuss preparing for death. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three (3) unit course.

PSYC 392 Loss and Grief 2 Units

Formerly: PSYC 10

Prerequisite: None
General Education: AA/AS Area E2
Acceptable for credit: CSU
27 hours Lecture; 27 hours Laboratory
This course will explore the causes of grief reactions and the dynamics of bereavement. Symptomology of normal grief will be compared with pathological reactions and suggested interventions. Techniques for the resolution of loss and coping strategies will be presented. The course may be taken twice for credit.

PSYC 394 Understanding Cancer 3 Units

Formerly: PSYC 29

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area A
Acceptable for credit: UC/CSU
54 hours Lecture
This course is the interdisciplinary examination of the biological and psychological factors involved in cancer, covering such topics as normal and cancer cell metabolism; carcinogenesis; personality, lifestyle and cancer; genetics and oncogenes; stress management; immunity and psychoneuroimmunology; and exceptional healing.

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

Formerly: PSYC 43

Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed for anyone who is interested in the effect illegal drugs, prescription drugs, over the counter drugs, vitamins, health foods, and coffee and nicotine have on people, physically, emotionally, mentally, and financially. This course is especially advised for people who are seeking or working in careers in health, law enforcement, counseling, psychology, business, social services, or teaching. (Credit for ADMJ 303 or PSYC 405, but not both.)

PSYC 405.1 Substance Abuse: Effects on Body and Behavior Overview (Same as ADMJ 303.1) .5 Unit

Formerly: PSYC 43A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU (Must complete 405.1-405.6)
9 hours Lecture
This is the introductory module to the three-unit Substance Abuse series that will provide an overview of the course. Students will review the history of drug use, its chemical commodities and nervous system functioning. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 405.2 Substance Abuse: The Action of Drugs (Same as ADMJ 303.2) .5 Unit

Formerly: PSYC 43B

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU (Must complete 405.1-405.6)
9 hours Lecture
This module in the Substance Abuse series is for students who are interested in the physiological action of a variety of drugs, including stimulants. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 405.3 Substance Abuse: Sedatives and Hypnotics (Same as ADMJ 303.3) .5 Unit

Formerly: PSYC 43C

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU (Must complete 405.1-405.6)
9 hours Lecture
This module in the Substance Abuse series will explore the effects and treatment of sedatives, hypnotics, and alcohol. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 405.4 Substance Abuse: Over the Counter and Psychotherapeutic Drugs (Same as ADMJ 303.4) .5 Unit

Formerly: PSYC 43D

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU (Must complete 405.1-405.6)
9 hours Lecture
This module in the Substance Abuse series will specifically examine the effects and treatments for over-the-counter and psychotherapeutic drugs. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 405.5 Substance Abuse: Narcotics and Hallucinogens (Same as ADMJ 303.5) .5 Unit

Formerly: PSYC 43E

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU (Must complete 405.1-405.6)
9 hours Lecture
This module in the Substance Abuse series will provide an understanding of the effects and treatment of narcotics. Other topics will include hallucinogens, marijuana, and hashish. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 405.6 Substance Abuse: Drug Use as a Social Problem (Same as ADMJ 303.6) .5 Unit

Formerly: PSYC 43F

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 310.
Acceptable for credit: CSU (Must complete 405.1-405.6)
9 hours Lecture
This module in the Substance Abuse series will explore drug use as it relates to law, education, and treatment modalities. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 410 Psychology of Creativity, Intuition and Problem Solving 3 Units

Formerly: PSYC 22

Prerequisite: None
Advisory: PSYC 300 or 350 highly recommended; Eligibility for ENGRD 310 or ENGWR 100 is advised.
Acceptable for credit: CSU
54 hours Lecture
This is a course designed to encourage problem solving, intuition and personal expression in a supportive group atmosphere. It will feature creative movement, writing, art, music, relaxation and creative visualization.

PSYC 410.1 Psychology of Creativity, Intuition and Problem Solving: Introduction .5 Unit

Formerly: PSYC 22A

Prerequisite: None
Advisory: PSYC 300 or 350; Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (Must complete 410.1-410.6)
9 hours Lecture
This is the first module in the Psychology of Creativity, Intuition and Problem Solving series and will provide an overview of the course. In addition students will acquire the basic tools to analyze the psychological components of creativity. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 410.2 Psychology of Creativity, Intuition and Problem Solving: Blocks to Creativity .5 Unit

Formerly: PSYC 22B

Prerequisite: None
Advisory: PSYC 300 or 350; Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (Must complete 410.1-410.6)
9 hours Lecture
This is the second module in the Psychology of Creativity, Intuition and Problem Solving series. Students will work on establishing a sense of safety while determining self-definitions of and self-awareness of creativity. This module may be taken independently or as part of the three-unit Psychology of Creativity, Intuition and Problem Solving course. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 410.3 Psychology of Creativity, Intuition and Problem Solving: Practicing Creativity .5 Unit

Formerly: PSYC 22C

Prerequisite: None
Advisory: PSYC 300 or 350; Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (Must complete 410.1-410.6)
9 hours Lecture
This is the third module in the Psychology of Creativity, Intuition and Problem Solving series. Students will engage in creative risk-taking and body guidance activities. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 410.4 Psychology of Creativity, Intuition and Problem Solving: Imagination and Healing .5 Unit

Formerly: PSYC 22D

Prerequisite: None
Advisory: PSYC 300 or 350; Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (Must complete 410.1-410.6)
9 hours Lecture
This is the fourth module in the Psychology of Creativity, Intuition and Problem Solving series. Students will focus on cultivating the imagination, capturing new ideas and emotional and spiritual healing. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 410.5 Psychology of Creativity, Intuition and Problem Solving: Becoming a Person of Power .5 Unit

Formerly: PSYC 22E

Prerequisite: None
Advisory: PSYC 300 or 350; Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (Must complete 410.1-410.6)
9 hours Lecture
This is the fifth module in the Psychology of Creativity, Intuition and Problem Solving series. Students will learn how to connect with their personal dream as they study the process of moving through the world creatively. This module may be taken independently. If a student has taken a module, three (3) units can still be earned by completing all six modules. Students who have not taken any of the modules are eligible to enroll in the three-unit course.

PSYC 410.6 Psychology of Creativity, Intuition and Problem Solving: The Creative Project **.5 Unit**

Formerly: PSYC 22F

Prerequisite: None
Advisory: PSYC 300 or 350; Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (Must complete 410.1-410.6)
9 hours Lecture
This is the sixth module in the Psychology of Creativity, Intuition and Problem Solving series. Students will discuss creativity as its own reward and reflect on the class series as they produce a final creative project. This module can only be offered to students who have taken modules A-E. If a student has taken a module, three (3) units can still be earned by completion all six modules. Students who have not taken any of the modules are eligible to enroll in three (3) unit course.

PSYC 412 The Heroic Journey **2 Units**

Formerly: PSYC 13

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU
36 hours Lecture
Using ideas from LaoTzu, Campbell, Jung, Pearson, Bolen, et al., the course will promote an understanding of the heroic journey of everyday people. The functions, processes, and totems of archetypal station of the Tao of life such as juggler, jester, altruist, warrior, wanderer, etc. will be shared. The heroic journey will be viewed as metaphor for psychological wounding and healing, fragmentation and individuation, and for joining with other sentient beings in the processes of becoming whole. This course is offered as a full semester, two unit course. If modules, credit is granted based on the number of modules successfully completed. All modules must be completed to earn 2 units.

PSYC 412.1 The Heroic Journey: A Conceptual Model **.5 Units**

Formerly: PSYC 13A

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 412.1-412.4)
9 hours Lecture
This is the introductory module in the two-unit course, PSYC 412, The Heroic Journey. The module will provide an overview of The Heroic Journey and examine the conceptual model from a variety of philosophical perspectives. This module may be taken independently. If a student has taken a module, two (2) units can still be earned by completing all four modules. Students who have not taken any of the modules are eligible to enroll in the two (2) unit course.

PSYC 412.2 The Heroic Journey: The Heroic Quality of Life **.5 Units**

Formerly: PSYC 13B

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 412.1-412.4)
9 hours Lecture
This module in the PSYC 412 series examines the works of Joseph Campbell and C. G. Jung as it traces the heroic journey in the mythology and analyzes archetypes of the collective unconscious. This module may be taken independently. If a student has taken a module, two (2) units can still be earned by completing all four modules. Students who have not taken any of the modules are eligible to enroll in the two (2) unit course.

PSYC 412.3 The Heroic Journey: Psychological Healing and Popular Culture **.5 Units**

Formerly: PSYC 13C

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 412.1-412.4)
9 hours Lecture
This module in the PSYC 412 series focuses on the heroic journey as a metaphor for healing. Students will discover the stages of human transformation as steps in the journey and examine the circular model of life. This module may be taken independently. If a student has taken a module, two (2) units can still be earned by completing all four modules. Students who have not taken any of the modules are eligible to enroll in the two (2) unit course.

PSYC 412.4 The Heroic Journey: Potential Stages and Tasks in the Heroic Journey **.5 Units**

Formerly: PSYC 13D

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
Acceptable for credit: CSU (must complete 412.1-412.4)
9 hours Lecture
This module in the PSYC 412 series provides an in-depth study of the tasks to be accomplished and the stages of transition in the heroic journey. This module may be taken independently. If a student has taken a module, two (2) units can still be earned by completing all four modules. Students who have not taken any of the modules are eligible to enroll in the two (2) unit course.

PSYC 480 Honors General Principles 3 Units

PSYC 1H

Prerequisite: Admission to Honors program (cumulative GPA of 3.0 or better) or eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC (PSYC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course is an introduction to the major areas in the field of psychology. Topics to be covered include physiological processes, learning, cognition, development, personality, psychological disorders, therapy, social psychology, and research methodologies in psychology. These topics will be discussed from a variety of classical and contemporary psychological perspectives. Critical thinking and application of concepts will be an integral part of the course. There will be oral and written assignments as well as experiential activities in the course. This Honors section uses an intensive pedagogical approach designed to allow motivated students to develop critical thinking skills, skills of oral and written expression, proficiency in library and Internet-based research, and creativity. Pedagogical strategies used in this course include student-led group discussion, oral and written presentations, extensive reading, exposure to theory and research in the field, and various activities and demonstrations.

PSYC 489 Topics in Psychology - Honors .5-4 Units

Formerly: PSYC 44H

Prerequisite: Admission to Honors Program.
General Education: AA/AS Area B2
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture
This course integrates and expands on themes that would normally be presented in traditional introductory psychology, social psychology, behavior modification and statistics courses. This course is not meant as a substitute for PSYC 300 or 350. This honors section uses an intensive instructional methodology designed to challenge motivated students.

PSYC 494 Topics in Psychology .5-4 Units

Formerly: PSYC 44

Prerequisite: None
General Education: AA/AS Area B2.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture
This course is designed to examine current issues or specific topics concerning psychology. Particular subjects to be covered each semester will be determined by the psychology staff. This course may be taken three times for credit; specific topics may not be repeated.

Recreation RECR

Division of Physical Education, Health, and Athletics

Gary Torgeson, Dean/Athletic Director

Hughes Stadium, Sections 1 and 3

916-558-2425

RECR 300 Introduction to Recreation and Leisure Services 3 Units

Formerly: RECR 40

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
A basic course which includes the nature, scope and significance of leisure and recreation as a social force in contemporary society. Special emphasis placed on the role of the professional leader in organizing recreational programs in a variety of settings.

RECR 498 Work Experience in Recreation 1-4 Units

Formerly: RECR 48

Prerequisite: None
Acceptable for credit: CSU
72 hours Lecture
18 hours lecture and 75 hours of related paid activity or 60 hours of volunteer activity for each unit of credit. This course provides practical experience and training for recreational leadership by providing actual supervised work on playgrounds and recreational facilities.

Science

Associate in Science Degree

Division of Science and Allied Health

Mary Turner, Dean

Mohr Hall 18

916-558-2271

This program is designed to provide students with a broad understanding of science and an option of a science major.

Required Program
Students must choose a minimum of 18 units from four of the six disciplines listed below. Three laboratory courses from three different disciplines must be included in the 18-unit requirement.

- Astronomy
- Biology
- Chemistry
- Engineering
- Geology
- Physics

Note: Completion of this major program does not equate to the completion of the lower division major preparation at four-year institutions. Please consult with a counselor.

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.

Sign Language Studies SI LA

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

SILA 305 American Sign Language 1 — 4 Units

Formerly: SILA 1

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is the beginning course in the communicative purposes of American Sign language. Functions establishing and maintaining social relationships are introduced and emphasized. This course provides development of cultural awareness and cross-cultural adjustment skills. Non-verbal communication is emphasized. Homework assignments require attendance at community events.

SILA 306 American Sign Language 2 — 4 Units

Formerly: SILA 2

Prerequisite: SILA 305.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is the second course in the communicative purposes of American Sign Language. Functions are introduced to help students expand their conversational range from talking about themselves to talking about other people and activities. Students will lean to give appropriate information to establish connection with Deaf acquaintances. Homework assignments will require attendance at community events.

SILA 315 American Sign Language 3 — 4 Units

Formerly: SILA 103, SILA 3

Prerequisite: SILA 306 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is an advanced course in American sign with emphasis on expressive and receptive non-verbal communication. The course provides extensive activities for developing interpersonal communication skills and awareness of deaf culture. A minimum of 25 hours for participation in Deaf Community events will be required.

SILA 316 American Sign Language 4 — 4 Units

Formerly: SILA 311, SILA 4

Prerequisite: SILA 315 with a grade of "C" or better.
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
72 hours Lecture
This is the final course in a series of four courses in American Sign Language. The course provides extensive activities on Sign Language expressions; utilization of ASL and English glosses, expressions, and idioms; reinforcement of previously learned grammatical markers. The course may be repeated on a credit-no credit basis. A minimum of 25 hours for participation in Deaf Community events will be required.

SILA 320 American Sign Language Discourse — 3 Units

Formerly: SILA 7

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course introduces students to signing beyond the conversational level. Students are exposed to complex and diverse signed situations to improve both expressive and receptive skills. The focus will be on the diversity of register, affect, and style in American Sign Language.

SILA 330 Impact of Deafness 3 Units

Formerly: SILA 5

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This class is a survey of processes from the perspective of four institutions that have critical impact on the psycho-social development of people: family, education, work, and society. Students will learn and become sensitive to the unique challenges of deafness. They will be exposed to how these challenges influence personal, social and communication competencies of deaf people. Written reports and student-initiated field trips will be required for this course.

SILA 332 Educating Deaf People 3 Units

Formerly: SILA 6

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This course consists of topics related to the education of deaf children, adults and multi-handicapped individuals. Topics will include teaching methods and philosophies; school placement issues; child development; and methods of coping with developmental stages. Research papers and student-initiated field trips will be part of this course.

SILA 334 Sign Language for Educators 1 Unit

Formerly: SILA 22

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course would provide techniques for educators to facilitate communication with deaf and hard of hearing children. Topics to be discussed include but are not limited to: 1) education options for deaf and hard of hearing children; 2) introduction to American Sign Language and fingerspelling; 3) appropriate uses of ASL and fingerspelling in the classroom; 4) history of teaching methods and philosophies for teaching deaf and hard of hearing children, 5) legal and cultural aspects of deaf education, 6) community resources for the deaf, and 7) the role of educational interpreters.

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

Formerly: SILA 21

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

Social Sciences SOCSC

Associate in Arts Degree

Division of Behavioral and Social Sciences

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

A major in Social Science may be obtained by completing a combination of any 18 units from a combination of three or more of the following areas and courses:

Anthropology
Economics
Geography
History
PHIL 310, Introduction to Ethics
PHIL 300, Introduction to Philosophy
Political Science
Psychology
Social Science
Sociology

Transfer Program:
Only certain courses in the SCC Social Science major transfer to Social Science majors at other four-year institutions, including California State University, Sacramento. Transfer students should consult the Requirements of Transfer Institutions in this catalog. For students intending to transfer to a specific college or university, consult the Social Science or related major sections of the catalog for that institution to determine entrance, transferability of SCC courses, general graduation, and major requirements. Consultation with a SCC Counselor is advised.

SOCSC 300 Introduction to Ethnic Studies 3 Units

Prerequisite: None
Advisory: Completion of ENGWR 100 or ESLW 320 and ESLR 320 with grades of "C" or better.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course uses comparative methods to introduce the diverse institutional, cultural, and historical issues relating to the past and present life circumstances of Asian Americans, Mexican/Hispanic/Chicano/Latino Americans, Black Americans, Native Americans and other recent immigrant groups. The course is designed to introduce students to information presented in upper division courses with ethnic studies content.

SOCSC 320 Socio-Cultural, Economic and Political Experience of the African-American 3 Units

Formerly: SS 40

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an inter-disciplinary overview of the socio-cultural, economic, and political issues in the life of African-Americans in the U.S.

SOCSC 325 Asian Experience in America 3 Units
Formerly: SS 44

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to and an investigation of the Asian-American's role, with emphasis on historical and cultural contributions from the time of immigration to the present day.

SOCSC 330 Mexican-Americans in the United States 3 Units
Formerly: SS 42

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a survey of contemporary issues concerning the Mexican-American in the United States. Emphasis is on the development of the southwest, population trends, socio-economic issues, the legal, educational and political experience and the Chicano movement.

SOCSC 332 The Sociology and Psychology of the Mexican-American 3 Units
Formerly: SS 43

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the cultural, sociological and psychological experience of the Mexican-American in the United States and reviews the influence of family, religion, socio-economic status and education. The issues of identity, assimilation and self-esteem will be discussed.

SOCSC 335 Introduction to Native-American Studies 3 Units
Formerly: SS 32

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
The course offers a broad overview of Native American studies as an interdisciplinary field, and includes contemporary topics such as: racism; popular imagery; sovereignty; land, water and mineral rights; politics; economic and resource development; urbanization; social and gender issues; the Indian Child Welfare Act; mental and physical health; general education and literature; language revitalization and the Indian Education program; cultural retention, transmission and adaptation. Introduction to Native American studies focuses on intra-tribal, trans-national, and various cultural, and political relationships and issues and explores these through an comparative interdisciplinary approach.

SOCSC 336 Native-American Culture and the Impact of Federal Policy 3 Units
Formerly: SS 33

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an 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 influence 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.

SOCSC 350 Introduction to Women's Studies 3 Units
Formerly: SS 10

Prerequisite: None
Advisory: Eligibility for ENGWR 100 or ESLW 340.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides an interdisciplinary introduction to women's studies through the exploration and examination of historical, philosophical, sociological, psychological and literary perspectives as they pertain to women. Emphasis will be placed on what it means to grow-up female in different racial contexts, with particular emphasis on the effects of culture and ethnicity.

SOCSC 494 Topics in Social Science .5-4 Units
Formerly: SS 4

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture
This is a special topics course that will focus on various International Studies topics and issues. Students will meet in a seminar format with different instructors in the Behavioral and Social Sciences Division to discuss ideas and issues and to present in-depth reports about the anthropological, geographical, historical, political, and sociological aspects of specific regions.

Sociology SOC

Division of Behavioral and Social Science

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

Sociology

Associate in Arts (A.A.) 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, e.g. at-risk-youth, the elderly or people experiencing challenges related to poverty, substance abuse or the justice system. Sociology majors are encouraged to participate in community activities and community service internships, and often attend relevant guest lectures and public events.

Required Program	**Units**
SOC 300, Introductory Sociology, OR SOC 480, Introductory Sociology - Honors	3
SOC 321, Race, Ethnicity, and Inequality in the United States	3
Select six (6) units from the following:	
SOC 301, Social Problems	3
SOC 305, Critical Thinking in the Social Sciences	3
SOC 310, Marriage and the Family (same as FCS 320)	3
SOC 344, Sociology of Women's Health	3
SOC 343, Women and Social Action	3
SOC 341, Sex and Gender in the U.S. (same as FCS 326)	3
SOC 335, Sociology of Aging (same as FCS 330 or Gerontology 300)	3
SOC 375, Introduction to Community Development	3
SOC 330, Community Relations: Multicultural Issues	3
SOC 380, Introduction to Social Services	3
SOC 382, Introduction to Casework in Social Sciences	3
Plus an additional 9 units in Cultural Geography, Cultural Anthropology, Psychology and/or History	
Total Required Units	**21**

In additional 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 .5-6 Units

Prerequisite: None
108 hours Lecture
This course teaches students how to use the sociological perspective to re-conceptualize 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 is awarded at the rate of .5 unit for each nine (9) hours of lecture, which is one module. Each module may be taken two times for up to one (1) unit of credit per module. If all six modules are taken two times each, total credit cannot exceed six (6) units.

SOC 210 Partner Abuse: Intervention Strategies Related to Power and Control .5 unit

Prerequisite: None.
9 hours lecture
This course examines elements of domestic violence that are directly related to both opposite and same sex partner abuse. It will include an overview of the problems well as intervention strategies related to power and control.

SOC 211 Partner Abuse: Anger Management .5 Unit

Prerequisite: None.
9 hours lecture
This course examines the relationship between anger and partner abuse, both same sex and opposite sex. It will begin with an overview of the dynamics of anger before proceeding to a study of anger management.

SOC 300 Introductory Sociology 3 Units

Formerly: SOC 1A

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Areas B2
Acceptable for credit: UC (SOC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course examines the elements and experience of social life. Analysis and discussion of social structure, culture, deviant behavior, social institutions, stratification, inequality and social change will be explored within a domestic and global framework.

SOC 301 Social Problems 3 Units

Formerly: SOC 1B

Prerequisite: None
Advisory: Eligibility for ENGRD 310 and ENGWR 100 or ESLW 340 and ESLR 340 and at least a grade of "C" in SOC 300 are advised.
General Education: AA/AS Areas B2
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines current social problems at global, national, and regional scales from a sociological perspective. It is taught in both face-to-face and online formats.

SOC 305 Critical Thinking in the Social Sciences 3 Units

Formerly: SOC 2

Prerequisite: Completion of ENGWR 300 or the equivalent.
General Education: AA/AS Areas B2, D.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the definitional and contextual nature of social issues. It develops a "critical thinking" approach that integrates interdisciplinary principles and incorporates a comparative framework utilizing literary criticism, logic, argumentation, and persuasion to analyze and compare the content and validity of social problems. This course specifically explores how the media and scientific community collect, interpret, and report social data. Combining critical thinking techniques with the sociological perspective will help students to question the "taken-for-granted" assumptions that surround social phenomena and influence human behavior.

SOC 310 Marriage and the Family (Same as FCS 320) 3 Units

Formerly: SOC 3

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Areas B2, E2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course will examine the social, psychological, historical and economic factors relating to changing family, marriage, remarriage and significant relationships. Exploration of the changing gender roles, the meaning of love and sexuality, dating, communication skills and parenting will also be included. (Credit may be awarded for either SOC 310 or FCS 320, but not both.)

SOC 312 The Child, The Family and The Community (Same as FCS 314) 3 Units

Formerly: SOC 4

Prerequisite: None
Advisory: FCS 312, eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines the child in the family and community, influences on growth and development including media, social class, gender, sexual orientation, racial/ethnic groups, and their relationship to family behavior. Additionally, the effects of community activities and resources on family life are explored. (Credit for FCS 314 or SOC 312, but not both).

SOC 321 Race, Ethnicity, and Inequality in the United States 3 Units

Formerly: SOC 5

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Areas B2, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course examines patterns of ethnic relations. The course emphasis is domestic, but includes investigations of global concern. Topics include discrimination, prejudice, social stratification, inequality, racism, sexism, ageism, and related subjects. Students can take either SOC 321 or SOC 330 for credit, but not both.

SOC 330 Issues in Multicultural Society 3 Units

Formerly: SOC 34

Prerequisite: None
Advisory: Eligibility for ENGRD 310 or ENGWR 100.
General Education: AA/AS Area F.
Acceptable for credit: CSU
54 hours Lecture
This course provides a survey of the multicultural problems currently facing communities. Students will learn the concepts of human relations as applied to human dignity; role of the individual worker in encounters with 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)

Formerly: SOC 22

Prerequisite: None
Advisory: Eligibility for ENGWR 100, ENGRD 310, or ENGRD 110.
General Education: AA/AS Area B2.
Acceptable for credit: UC (SOC 335 or PSYC 374, maximum one course)/CSU
54 hours Lecture
This course examines the aged and 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/cultural differences. (Credit awarded for Sociology 335 or Family and Consumer Science 330 or Gerontology 300.)

SOC 341 Sex and Gender in the United States (Same as FCS 326) 3 Units

Formerly: SOC 20

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340 or ESLR 340.
General Education: AA/AS Area B2.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a study of the changing roles of women and men in America. Theories of women's and men's "natures", gender role socialization, gender related inequalities, health and body issues and current examination of the women's and men's movements will be explored. (Credit for FCS 326 or SOC 341, but not both.)

SOC 343 Women and Social Action 3 Units

Formerly: SOC 19

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340 or ESLR 340.
General Education: AA/AS Area B2
Acceptable for credit: CSU
54 hours Lecture
This course covers a multitude of topics relating to women and social action. It provides an overview of the many ways in which women engage in deliberative social action to change the conditions of their lives. Students will study social activists in the context of sociological theory applied to issues related to the family, health, religion, work, sexual harassment, homelessness, and violence. Assignments are designed to enable students to explore the issues and develop the ability to engage in social action.

SOC 344 Sociology of Women's Health 3 Units

Formerly: SOC 9

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340 and ESLR 340.
Acceptable for credit: UC/CSU
54 hours Lecture
This course provides a sociological analysis of health issues that concern women throughout their life course. The impact of physiology, psychology, culture, society, and polities upon women's well-being will be addressed using the feminist perspective. This course may be offered as a full semester, three-unit course or as individual modules. If modules, credit is granted based on the number of modules successfully completed.

SOC 344.1 Sociology of Women's Health, Introduction .5 Unit

Formerly: SOC 9A

Prerequisite: None
Advisory: Eligibility for ENGWR 110 and ENGWR 100 or ESLW 340 and ESLR 340.
Acceptable for credit: CSU (must complete 344.1-344.6)
9 hours Lecture
This module in the Sociology of Women's Health course will provide an overview of the course. In addition, this course provides a sociological analysis of health issues that concern women through out their life course. The impact of physiology, psychology, culture, society and politics upon women's well-being will be addressed using the feminist perspective. This course may be offered as a full semester, three-unit course or as modules. Modules need not be taken in specific order. If taken in modules, credit is granted based on the number of modules successfully completed.

SOC 344.2 Sociology of Women's Health, Reproductive Health and Choices .5 Unit

Formerly: SOC 9B

Prerequisite: None
Advisory: Eligibility for ENGWR 110 and ENGWR 100 or ESLW 340 and ESLR 340.
Acceptable for credit: CSU (must complete 344.1-344.6)
9 hours Lecture
This module in the Sociology of Women's Health course will address the areas of reproductive health including an overview of female reproductive anatomy, menstruation, ovulation, and fertility. In addition, this course provides a sociological analysis of health issues that concern women through out their life course. The impact of physiology, psychology, culture, society and politics upon women's well-being will be addressed using the feminist perspective. This course may be offered as a full semester, three-unit course or as modules. Modules need not be taken in specific order. If taken in modules, credit is granted based on the number of modules successfully completed.

SOC 344.3 Sociology of Women's Health, Vaginal Health; Birth Control Options; Abortion; Adoption .5 Unit

Formerly: SOC 9C

Prerequisite: None
Advisory: Eligibility for ENGWR 110 and ENGWR 100 or ESLW 340 and ESLR 340.
Acceptable for credit: CSU (must complete 344.1-344.6)
9 hours Lecture
This module in the Sociology of Women's Health course will address the areas of vaginal health (including homeopathic alternatives to treatment, birth control options, abortion, and adoption). In addition, this course provides a sociological analysis of health issues that concern women through out their life course. The impact of physiology, psychology, culture, society and politics upon women's well-being will be addressed using the feminist perspective. This course may be offered as a full semester, three-unit course or as modules. Modules need not be taken in specific order. If taken in modules, credit is granted based on the number of modules successfully completed.

SOC 344.4 Sociology of Women's Health, Body Image, Self-Esteem and Violence Against Women .5 Unit

Formerly: SOC 9D

Prerequisite: None
Advisory: Eligibility for ENGWR 110 and ENGWR 100 or ESLW 340 and ESLR 340.
Acceptable for credit: CSU (must complete 344.1-344.6)
9 hours Lecture
This module in the Sociology of Women's Health course will address the issues of body image (including an overview of eating disorders), development and relevance of self-esteem and examination of violence against women. In addition, this course provides a sociological analysis of health issues that concern women through out their life course. The impact of physiology, psychology, culture, society and politics upon women's well-being will be addressed using the feminist perspective. This course may be offered as a full semester, three-unit course or as modules. Modules need not be taken in specific order. If taken in modules, credit is granted based on the number of modules successfully completed.

SOC 344.5 Sociology of Women's Health, Sexuality: Choices and Politics .5 Unit

Formerly: SOC 9E

Prerequisite: None
Advisory: Eligibility for ENGWR 110 and ENGWR 100 or ESLW 340 and ESLR 340.
Acceptable for credit: CSU (must complete 344.1-344.6)
9 hours Lecture
This module in the Sociology of Women's Health course will address the topic of human sexuality including an examination of sexually transmitted infections, a cross-cultural examination of sexual practices in the United States and an overview of the politics of sexuality. In addition, this course provides a sociological analysis of health issues that concern women through out their life course. The impact of physiology, psychology, culture, society and politics upon women's well-being will be addressed using the feminist perspective. This course may be offered as a full semester, three-unit course or as modules. Modules need not be taken in specific order. If taken in modules, credit is granted based on the number of modules successfully completed.

SOC 344.6 Sociology of Women's Health, Women and Alcohol/Tobacco/ Drug Abuse; Issues in Aging .5 Unit

Formerly: SOC 9F

Prerequisite: None
Advisory: Eligibility for ENGWR 110 and ENGWR 100 or ESLW 340 and ESLR 340.
Acceptable for credit: CSU (must complete 344.1-344.6)
9 hours Lecture
This final module in the Sociology of Women's Health course will address the issues of women and substance abuse as well as challenges unique to women growing older. In addition, this course provides a sociological analysis of health issues that concern women through out their life course. The impact of physiology, psychology, culture, society and politics upon women's well-being will be addressed using the feminist perspective. This course may be offered as a full semester, three-unit course or as modules. Modules need not be taken in specific order. If taken in modules, credit is granted based on the number of modules successfully completed.

SOC 375 Introduction to Community Development 3 Units

Formerly: SOC 30

Prerequisite: None
Advisory: ENGWR 100 or equivalent.
General Education: AA/AS Area B2
Acceptable for credit: CSU
54 hours Lecture
This course explores the basic principles of community development. Students will analyze models of successful community practice, learn community problem assessment techniques, develop community resource mapping strategies, and become familiar with a variety of funding strategies, i.e. grant writing, fund-raising, blended funding, resource allocation and reallocation, and sustainability.

SOC 380 Introduction to Social Services 3 Units

Formerly: SOC 35

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Area B2.
Acceptable for credit: CSU
54 hours Lecture
This course will provide a comprehensive overview of the social services. Students will study the full range of organized activities of private, nonprofit and public sector organizations that seek to prevent, alleviate or contribute to the solutions of recognized social problems, or to improve the well-being of individuals, groups, or communities. This is the introductory course for students interested in careers in applied sociology. This course will provide a multicultural perspective and teach the skills of critical analysis as they relate to social problems.

SOC 382 Introduction to Casework in Social Services 3 Units

Formerly: SOC 36

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
General Education: AA/AS Area B2.
Acceptable for credit: CSU
54 hours Lecture
This course examines the role of casework in the social service setting, which includes the building of relationships, exploring problems in depth, exploring alternative solutions, identifying and accessing resources, and learning to develop plans for the future and act on them. The course also includes an overview of various casework approaches as they affect diverse populations.

SOC 480 Introductory Sociology - Honors 3 Units

Formerly: SOC 1AH

Prerequisite: Admission to the Honors Program and eligibility for ENGWR 300.
General Education: AA/AS Area B2
Acceptable for credit: UC (SOC 300 or 480, maximum one course)/CSU
54 hours Lecture
This course examines human behavior as it is affected by social forces. Concepts such as culture, social institutions, social stratification, social change, and social control will be analyzed from both a micro and macro-sociological perspective. The class is conducted as a seminar in which students will be responsible for developing qualitative and/or quantitative analyses of controversial issues and drawing on classical and contemporary sociological theory to frame classroom presentations. There will be oral and written assignments as well as experiential activities. This course is designed for students from all academic disciplines who are motivated to learn the sociological perspective and how it can be applied to all aspects of the human experience. This honors section uses an intensive instructional methodology designed to challenge motivated students.

SOC 494 Topics in Sociology .5-4 Units

Formerly: SOC 44

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLW 340.
Acceptable for credit: UC (pending UC approval after transfer)/CSU
54 hours Lecture
This course provides an examination of specific topics from a sociological perspective. The particular subject to be covered each semester will be determined by the sociology department and depend on topical events. Students may earn from 1-4 units. Consult the schedule of classes for specific topics.

SOC 495 Independent Studies in Sociology 1-3 Units

Formerly: SOC 49I

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture

Statistics STAT

Division of Mathematics/Statistics & Engineering

Ron Hatton, Interim Dean

South Gym 220

916-558-2202

Statistics (STAT)

STAT 300 Introduction to Probability and Statistics 4 Units

Formerly: STAT 1

Prerequisite: MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process.

General Education: AA/AS Area D2 and Math Competency

Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU

72 hours Lecture

This course is an introduction to probability and statistics. Topics include: elementary principles and applications of descriptive statistics, counting principles, elementary probability principles, probability distributions, estimation of parameters, hypothesis testing, linear regression and correlation, and ANOVA. Scientific calculators with two-variable statistical capabilities may be required for this class.

STAT 480 Introduction to Probability and Statistics - Honors 4 Units

Formerly: STAT 1H

Prerequisite: MATH 120 (or MATH 124) with a grade of "C" or better or eligibility as determined by the assessment process; eligibility for admissions to the Honors Program.

Acceptable for credit: UC (ECON 310 or 482 or STAT 300 or 480, maximum one course)/CSU

AA/AS: Math Competency

72 hours Lecture

This course is an introduction to the concepts of statistics with a strong emphasis on the understanding and appreciation of the role of statistics in real life situations including computer analysis of real data. Topics include descriptive statistics, probability distributions, experimental design, hypotheses testing including ANOVA, non-parametric tests, and regression and correlation.

Note: Business Statistics-See Economics 310 under Business

Student Government S GVT

Student Leadership and Development

Myra Borg, Dean

South Gym 226

916-558-2194

SGVT 300 Introduction to Student Government 2 Units

Formerly: SGVT 1

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 18 hours Laboratory
This course is an introduction to the dynamics of working groups. It provides theory and practice in leadership, parliamentary law, committee techniques, and organizational behavior. The emphasis is on governmental procedures and functions as they apply to student governance. Students can anticipate participation in the Student Association Council and committees. This course may be taken twice for credit.

Study Abroad Program

Sacramento City College recognizes the benefits to be derived from travel/study tours and the educational value of on-site experiences in other areas of the world. Study abroad can be an enlightening, maturing, and life-changing experience. Students are challenged to re-examine themselves, their attitudes and their studies as they learn to understand new and different cultures.

In cooperation with the American Institute for Foreign Study and the Northern and Central California Consortium, the Los Rios Community College District offers unique study opportunities in London, England; Paris, France; Florence Italy, Costa Rica, and Madrid.

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.
Acceptable for credit: CSU

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.

Technology TECH

Division of Advanced Technology

Joseph Armstrong, Interim Dean

Auditorium 1

916-558-2491

TECH 10 Basic Instrumental Drawing 3 Units

Formerly: TECH 200

Prerequisite: None
54 hours Lecture
This course is an introduction to the use of drafting equipment and materials. Studies to include lettering, geometric construction, orthographic, isometric and oblique projection, shades and shadows, principles of drawing layouts and dimensioning. This course is designed to meet the instrumental drawing needs of students enrolling in Aviation Maintenance Technology, Engineering Design Technology, Electronics Technology, Printing Technology, Metals Industry Technology and Survey Technology.

TECH 11 Applied Technical Mathematics 3 Units

Formerly: TECH 201

Prerequisite: None
54 hours Lecture
This course focuses on review of arithmetical processes and applied technical problems. Includes whole numbers, common fractions, decimal fractions, measurements, percentages, finance, graphs, equations, ratio and proportion, exponents, radicals, metric conversion and basic algebra.

TECH 12 Introduction to Basic Tools and Materials of Industry 1 Unit

Formerly: TECH 202

Prerequisite: None
18 hours Lecture
This course focuses on an orientation of the nomenclature and use of basic hand tools and materials used by technicians. Content is specifically designed for students who lack previous technical experience.

TECH 100 Introduction to Technology 1 Unit

Formerly: TECH 38

Prerequisite: None
18 hours Lecture
This course is designed to introduce students to post-secondary education and to acquaint them with occupational career paths in technology. This will be accomplished by introducing the student to the enrollment/matriculation process, academic standards/college policies, technology programs/graduation requirement, and career opportunities.

TECH 103 Technical Communication (Same as MET 220) 3 Units

Formerly: TECH 67

Prerequisite: Eligibility is determined by the assessment process or completion of ENGWR 50 with a grade of "C" or better.
General Education: AA/AS Area D1 and writing competency
36 hours Lecture; 54 hours Laboratory
This course provides applications of writing and speaking skills for the business environment. Each student writes a minimum of 6,000 words, including a final essay exam. Units of instruction include: the process and techniques of technical writing, basic word processor usage, writing and preparing typical job related memos, letters, employment letters, resumes, specifications, procedures, abstracts, summaries, instructions, manuals, requisitions, purchase orders, and other documentation used in industry. An oral report, a formal proposal, and a final written essay will be required.

TECH 105 Foundation for Career Success 3 Units

Formerly: TECH 80

Prerequisite: None
General Education: AA/AS Area E2
30 hours Lecture; 70 hours Laboratory
This class is designed to introduce students to specific personal skills and competence that will lead to success in the workplace. Units of instruction include: Rules, Time management, Value Awareness; Improving Interpersonal Skills and Working with Others; Measuring Job Preparedness and Making Decisions; Developing SCANS competencies for Job Success; Problems and Problem-solving; Organizing Yourself and Working with Others and Learning to Learn. Class includes specific content skills exercises, guided practice and individual skill development.

TECH 300 Introduction to Robotic Systems Application (Same as ENGR 308) 3 Units

Formerly: TECH 53

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This is a course designed to provide introductory level instruction in the concepts, operation, maintenance and practical application of robotic systems. Instructional components will include: basic robotic concepts, mechanical, electronic, hydraulic, and pneumatic components, light and other sensor controls in addition to related programming and safety procedures. (Credit for TECH 300 or ENGR 308, but not for both.)

TECH 310 Industrial Safety 1 Unit

Formerly: TECH 58

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course focuses on the development of industrial safety programs; causes and costs of accidents; accident analysis reports; basic factors of accident control; hand, heat and power tools; safety problems of handling materials; vehicular safety; protective equipment; safety codes; first aid; fire prevention, fire fighting, emphasis on personal responsibility for safety.

TECH 315 Industrial Relations 1 Unit

Formerly: TECH 59

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture
This course focuses on applied psychology on the job; basic human needs on the job; managerial, supervisory and labor force relations; union organizations; organizations of management; functions of an industrial relations department.

TECH 498 Work Experience in Technologies 1-4 Units

Formerly: TECH 98

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 75 hours Laboratory
Technology includes Aeronautics, Electronics Technology, Engineering Design Technology, Graphic Communication, Mechanical-Electrical Technology, Metals Industry Technology, Photography, and Surveying (Geomatics) 18 hours lecture and 75 hours of paid work experience; 75 hours work for each additional unit This course is an introduction to career research techniques, discussion of industrial management and industrial relations problems and techniques.

Theatre Arts T A

Associate in Arts Degree

Acting-Directing Emphasis

Technical Production Emphasis

Division of Humanities and Fine Arts

Chris Iwata, Dean

Auditorium 19a

916-558-2551

A major in Theatre Arts may be obtained by completing a minimum of 18 units in either Emphasis I or II of the Required Program.

Required Program

I. Theatre Arts - Acting-Directing Emphasis: TA 300, 302, 303, 342, 350, 351, 370, 372, 420, 437, 438, 452 and 461, 462, 463, 464 and/or 465.

II. Theatre Arts - Technical Production Emphasis: Theatre Arts 300, 302, 303, 342, 350, 420, 422, 437, 438, and 461, 462, 463, 464 and/or 465.

Suggested Electives

Other Theatre Arts courses.

Associate in Arts (A.A.) Degree

The Associate in Arts degree may be obtained by completion of a minimum of 18 units from either Emphasis I or II, plus general education requirements, plus sufficient electives to meet a 60-unit total.

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.

TA 300 Introduction to the Theatre 3 Units

Formerly: TA 1

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course includes the study of live theatre and its relationship to film and television. Also covered are the development of an enjoyment of theatre through play reading, discussion, films, and viewing live theatre including a required field trip to a play at a professional theatre. This is an audience oriented, non-performance course.

TA 302 History and Theory of the Theatre I 3 Units

Formerly: TA 2A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the masterpieces of world theatre from the Greeks to modern times. Lectures include the historical background in which the plays were written, discussion of the playwright's meaning, and comments on a variety of staging possibilities. Students are required to see three stage productions during the semester.

TA 303 History and Theory of the Theatre II 3 Units

Formerly: TA 2B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a study of the principal types of Twentieth Century theatre. Lectures include the background in which the plays were written, discussions of the playwright's meaning, and comments on a variety of staging possibilities. Students are required to see three stage productions during the semester.

TA 308 Diversity in Theatre 3 Units

Formerly: TA 4

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
This course is an introduction to American cultural diversity in theatrical performance. This course will study African American, Asian American, Latino, Native American, gay and lesbian, and other theatres. The social, cultural and political conditions that shaped these works will also be examined and discussed.

TA 310 Introduction to Film (Same as ENGLT 400) 3 Units

Formerly: TA 6

Prerequisite: Eligibility for ENGWR 100 and ENGRD 110 or ESLR 320 and ESLW 320 or placement through the assessment process.
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores the artistic, business, and social elements of modern film. It examines the elements that go into making films: acting, directing, cinematography, writing and editing. It investigates the techniques used to manipulate the audience into fear, laughter and sadness; and compares the commercial box office hit and "movie star" to enduring artistic films and actors. The course will view and analyze films to evaluate filmmaking techniques and the impact of films and the move business on society.

TA 312 History of Film 3 Units

Formerly: TA 7

Prerequisite: None
General Education: AA/AS Areas C, F.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is a general survey of the development of the art of narrative film from early silent films to modern sound films using lecture, discussion and films chosen to represent important developments in the film history. The course may be taken twice for credit.

TA 318 Diversity in American Film 3 Units

Formerly: TA 8

Prerequisite: None
Advisory: Eligibility for ENGWR 100 and ENGRD 110 or ESLR 320 and ESLW 320 or placement through assessment process.
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
54 hours Lecture
This course surveys the cinematic expression of artists often underrepresented in the mainstream media such as women, Native-Americans, African-Americans, Latinos, Asian-Americans and gays and lesbians. Media stereotypes and their social, political, and cultural origins will be covered through film, lecture, and discussion.

TA 320 Cinema Genres 3 Units

Formerly: TA 9

Prerequisite: None
Advisory: ENGWR 100 and/or ENGRD 310.
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to explore in depth one or more film genres. Special attention will be paid to development, aesthetics, popularity and artists of the specific form. This course may be taken four times for credit if the subject matter is not repeated. See the Schedule of Classes for specific information.

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

Prerequisite: None
Acceptable for credit: CSU
36 hours lecture, 72 hours laboratory
This course emphasizes contemporary methods of film production, including low-budget art films with a concern for the aesthetics of film making. Stressed are techniques of direction, lighting, titling, camera use, editing, film types, lenses, and other aspects of cinema. Equipment and supplies for individual projects must be furnished by each student. Supplies and equipment are furnished for students working on group projects. The course may be taken twice for credit.

TA 332 Film-Making Projects 3 units

Prerequisite: None
Acceptable for credit: CSU
36 hours lecture, 72 hours laboratory
A fundamental overview of the basic creative, technical, and management skills necessary to design and produce a film project on location. Students will gain hands-on experience in production techniques using film production equipment. The emphasis is on pre-production planning, scripting, equipment operations, lighting, audio, and post production. As a class project, participants develop and produce a previously determined, short subject film on location that applies the principles learned through lectures, program screenings, exercises, and guest speakers. Because of the technical nature of this course, students with prior coursework or training in theatre, film, television or related fields will be able to engage the class more quickly. This course may be taken twice for credit.

TA 333 Film Editing with Final Cut Pro 3 units

Prequisite: None
Acceptable for credit: CSU
36 hours lecture, 72 hours laboratory
This course is an introduction to the basic concepts and technical elements of film editing for the cinema. Students will gain practical experience in editing images and synchronous sound to create cinematic products. Students will receive training in the basic features and capabilities of current film editing equipment including the latest film editing software. Some of the topics covered in the course include a basic overview of editing, video montage, subclippings, storyboarding, editing dialogue, as well as digitizing and final output. This course involves the use of software which is primarily Macintosh based.

TA 342 Introduction to Acting 2 Units

Formerly: TA 14

Prerequisite: None
General Education: AA/AS Areas C, D2.
Acceptable for credit: UC/CSU
18 hours Lecture; 54 hours Laboratory
This course is an introduction to stage performance. Included is a classroom investigation of performance through the use of theatre games, movement, sensory awareness and improvisation. The course is designed for the student interested in self-expression through informal drama.

TA 350 Theory and Techniques of Acting I 3 Units

Formerly: TA 15A

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course explores the theories and techniques used in the preparation of a role for the stage. Memorized acting scenes are staged and performed in the classroom. The course is designed for majors in theatre arts and communication.

TA 351 Theory and Techniques of Acting II 3 Units

Formerly: TA 15B

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
54 hours Lecture
This course includes the application of acting theories and techniques to the scripts of realistic drama. Memorized acting scenes are presented in the classroom.

TA 356 Acting for the Camera I 3 Units

Formerly: TA 19

Prerequisite: Completion of TA 348 or 350 with a grade of "C" or better.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This is an introductory course in the theory and techniques of acting for film and television. This course compares the differences between acting on the stage and acting for the camera. Scenes and commercials will be rehearsed, performed, and played back for critiques.

TA 360 Styles of Acting 3 Units

Formerly: TA 16

Prerequisite: None
General Education: AA/AS Area C.
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
Students will study and practice different styles of acting from the ancient to modern times. The instructor may concentrate on selected periods. This course may be taken twice for credit.

TA 364 Shakespeare Without Fear 3 Units

Formerly: TA 45

Prerequisite: None
Advisory: ENGWR 100 and/or ENGRD 310
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to give the student a non-threatening opportunity to explore performance of Shakespeare plays. Some of the topics covered include acting, language, stage combat and auditioning techniques. Students will gain insights into the historical and cultural context of Shakespeare's works through their performances and discuss their contemporary relevance.

TA 370 Theatre Movement 2 Units

Formerly: TA 17

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course is an active participation and performance experience designed to give students experience in discovering and solving movement tasks of the actor. The course incorporates exercises to expand the individual's movement capabilities, improvisations to explore movement for characters and scenes, and training in specific movement areas such as combat, period style, and dance. The course may be repeated for a maximum of eight units of credit.

TA 372 Pantomime 3 Units

Formerly: TA 18

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
This course is designed to give students an awareness of the history of mime and the nature of current mime forms and to introduce each student to the theories and basic techniques of mime. This course is intended to encourage each student through exercises, improvisations and performance, assignments to communicate silently with an audience through imaginative, disciplined and stylized body movements.

TA 395 Playwriting 3 Units
Formerly: TA 38

Prerequisite: None
Advisory: ENGWR 100.
General Education: AA/AS Area C.
Acceptable for credit: CSU
54 hours Lecture
This course includes the writing, reading, performing, critiquing, and a process of continuous revising of original work. Students will write continually throughout the semester, and their work will be read, performed, and discussed in class. Students will complete either a full-length play or three one-act plays by the end of the semester.

TA 404 Techniques of Puppetry 3 Units
Formerly: TA 24

Prerequisite: None
Acceptable for credit: CSU
36 hours Lecture; 54 hours Laboratory
This course includes the study of puppets as a medium of expression of dramatic material. Studied are puppet history, construction, techniques of scripting and production.

TA 407 Children's Theatre .5-3 Units
Formerly: TA 25

Prerequisite: None
Acceptable for credit: CSU
162 hours Laboratory
This course is open to students participating in theatrical productions as children's literature. Students are selected through auditions as actors or technicians and may earn one-half to three units at the discretion of the instructor. This course may be repeated to twelve units maximum. Students may enroll in this class after the close of late registration at the discretion of the instructor.

TA 420 Stagecraft 3 Units
Formerly: TA 30A

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course covers the basic materials used in the construction of scenery and properties; as well as construction and painting techniques; kinds of scenery and backstage organization are explored through a combination of lecture and practical experience gained by working on department productions.

TA 422 Stage Lighting 3 Units
Formerly: TA 31

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 72 hours Laboratory
This course is an introduction to the basic concepts of lighting the stage, film, and television. The course covers the planning of lighting from the basics of electricity, equipment and control, to the design elements of color, space, scenery and movement to produce a lighting design.

TA 430 Costume Construction 3 Units
Formerly: TA 36

Prerequisite: None
Acceptable for credit: UC/CSU
54 hours Lecture
In addition to constructing costumes for at least two major drama productions, students will learn techniques of pattern drafting and adaptation of period styles for stage use. Basic elements of color, design, and period styles are explored. This course may be taken twice for credit.

TA 437 Stage Make-up I 2 Units
Formerly: TA 39A

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
The course includes the analysis of techniques of stage make-up. Experience includes developing make-up for different characters from plays. The course is recommended for drama majors.

TA 438 Stage Make-up II 2 Units
Formerly: TA 39B

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture
This course includes special projects in the design and execution of character make-up for selected plays. Emphasis is on three dimensional make-up techniques. In order to provide advance instruction, students will work in small groups.

TA 440 Arts Management 3 Units
Formerly: TA 34

Prerequisite: None
Acceptable for credit: CSU
54 hours Lecture
This is a general survey class in arts management with emphasis on: organization, marketing/development, and financial management. Fieldwork will include projects with an existing arts organization.

TA 452 One-Act Play Workshop 3 Units
Formerly: TA 46

Prerequisite: None
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
The course includes the reading and discussion of one-act plays with each member of the class becoming a participant-as a performer and/or technician-in a one-act play production. The course may be taken four times for credit.

TA 454 Ethnic Theatre Workshop I 3 Units

Formerly: TA 40

Prerequisite: None
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course includes participation in various theatre activities specifically designated to explore the needs of the ethnic performer. The course may be taken four times for credit.

TA 455 Ethnic Theatre Workshop II 3 Units

Formerly: TA 41

Prerequisite: None
General Education: AA/AS Area F
Acceptable for credit: UC/CSU
36 hours Lecture; 54 hours Laboratory
This course allows students to work on a specific work or works of ethnic theatre as performers or technicians. A production of ethnic drama will be presented the last weeks of the course. The course may be taken four times for credit.

TA 461 Rehearsal and Performance - Drama .5-3 Units

Formerly: TA 47A

Prerequisite: Audition.
Acceptable for credit: UC/CSU
162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of dramatic theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 462 Rehearsal and Performance - Comedy .5-3 Units

Formerly: TA 47B

Prerequisite: Audition.
Acceptable for credit: UC/CSU
162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of comedic theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 463 Rehearsal and Performance - Classic .5-3 Units

Formerly: TA 47D

Prerequisite: Audition.
Acceptable for credit: UC/CSU
162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of classic theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 464 Rehearsal and Performance - Children's Show .5-3 Units

Formerly: TA 47E

Prerequisite: Audition.
Acceptable for credit: CSU
162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of children's theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 465 Rehearsal and Performance -Musical (Same as MUP 370) .5-3 Units

Formerly: TA 47C

Prerequisite: Audition.
Acceptable for credit: UC/CSU
162 hours Laboratory
This course provides a workshop training experience in the preparation and performance of musical theatre productions. Actors audition with the director for acting roles. Students interested in technical work interview for backstage positions in stage management, crewing, set construction, costumes and makeup, lighting and sound, box office and publicity. This course may be taken four times for credit for a maximum of 12 units.

TA 466 Rehearsal and Performance - Musical Ensemble (Same as MUP 370) .5-3 Units

Formerly: TA 43

Prerequisite: Students are selected through audition as singers and instrumentalists.
Acceptable for credit: UC/CSU
162 hours Laboratory
This course is open to students performing in theatrical musical productions. Students are selected through audition as singers and instrumentalists. The course requires 54 hours of laboratory for each unit of credit. This course may be repeated up to 12 units maximum.

TA 477 Fundamentals of Repertory Production 1-3 Units

Formerly: TA 44

Prerequisite: Audition.
Acceptable for credit: UC/CSU
18 hours Lecture; 108 hours Laboratory
The course provides for participation in one or more productions and includes work in all areas of theatre, including acting, scene construction, costumes, makeup and business management. It culminates in concurrent performances at the end of the session. The course may be repeated for a total of 12 units. Students may opt for a one-unit workshop that will survey the production process.

TA 494 Topics in Theatre Arts .5-4 Units

Formerly: TA 42

Prerequisite: None
Acceptable for credit: UC (pending UC approval after transfer)/CSU
36 hours Lecture; 108 hours Laboratory
This course is designed to give students an opportunity to study a variety of topics dealing with performance and/or production aspects of theatre not included in current course offerings. This course may be repeated for credit, providing there is no duplication of topics.

TA 498 Work Experience in Theatre Arts 1-4 Units

Formerly: TA 48

Prerequisite: None
Acceptable for credit: CSU
18 hours Lecture; 54 hours Laboratory
This course involves 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; and 75 or 60 hours of related work experience for each additional unit. The course may be repeated when there is new or expanded learning on the job.

Women's Studies

Associate in Arts Degree

Division of Behavioral and Social Science

Dr. Kari Forbes-Boyte, Dean

Rodda North 226

916-558-2401

Women's Studies, established in 1975 under the Social Sciences major, is a multi-disciplinary academic program. The program prepares students for a wide range of career and life choices, for advanced study in traditional disciplines and professions, for entry into non-traditional fields, and for full participation in the twenty-first century.

Students develop critical reasoning and analytical skills, research and communication skills, and a deep appreciation for the complexities of power. The program intellectually challenges paradigms. It seeks to awaken students to the realities of American society, to encourage them to re-examine traditional ideas about women, to acquire skills, and to choose life goals consistent with their individual potential.

Required Program

Select 18 Units from the following:	**Units**
ARTH 312, Women in Art	3
ENGLT 360, Women in Literature	3
HCD 300- Sections on Women's Experiences	1-4
HIST 310 (Emphasis: Women), History of the United States	3
HIST 311 (Emphasis: Women), History of the United States	3
FITNS 454, Personal Safety	1.5
POLS 340, Women and Politics	3
PSYC 356, Human Sexuality	3
PSYC 360, Psychology of Women	3
SOCSC 350, Introduction to Women's Studies	3
SOC 341, Women in American Culture	3
Total Units Required	**18**

NOTE: Other courses with an emphasis on women may be offered from time to time. See current Schedule of Classes for listings.

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.

Work Experience - W EXP Cooperative Work Experience Education and Internship Program

Division of Student Services

Lawrence Dun, Dean

Rodda North 111

916-558-2289

Students who are interested in combining practical work experience with classroom training, either for pay or as volunteers, and students who are working full-time or part-time, as volunteers or 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; 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.

1. 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 or from an individual instructor.

2. 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.

3. 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. These 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.

4. 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 and no more than six (6) units total. Occupational Work Experience students can earn up to four (4) units each semester and no more than 16 units total. 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.

5. 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.

6. 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.

7. Summer Session
Students may enroll in a Work Experience course during the summer without having to enroll in other courses.

8. 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.

9. Work Experience courses are available in several divisions and will be listed in the catalog and the class schedule as follows:

Administration of Justice 498

Business 498

Computer Information Science 498

Early Childhood Education 498

Engineering Design Technology 498

Journalism 498

Library and Information Technology 298

Real Estate 298

Sociology 498

Wendy Slobodnik, Coordinator
Counseling Services Area, Room 114
916-558-2383
slobodw@scc.losrios.edu

Work Experience (WEXP)

WEXP 198 Work Experience - General 1-3 Units

Formerly: WEXP 97

Prerequisite: None
Corequisite: Student must have either a job or an established internship.
General Education: AA/AS Area E2.
18 hours Lecture; 150 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area. Course content will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V papers (the student's Application, Learning Objectives, Timesheet, and Evaluations) which document the student's progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies as well as by local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be taken up to four times when there is new or expanded learning on the job for up to 12 units.

WEXP 298 Work Experience in (Subject) 1-4 Units

Formerly: WEXP 98

Prerequisite: None
Corequisite: Student must have either a job or an established internship.
General Education: AA/AS Area E2.
18 hours Lecture; 75 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area. Course content will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V papers (the student's Application, Learning Objectives, Timesheet, and Evaluations) which document the student's progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies as well as by local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be taken up to four times when there is new or expanded learning on the job for up to 16 units.

WEXP 498 Work Experience in (Subject) 1-4 Units

Formerly: WEXP 48

Prerequisite: None
Corequisite: Student must have either a job or an established internship.
General Education: AA/AS Area E2.
Acceptable for credit: CSU
18 hours Lecture; 225 hours Laboratory
This course is designed to provide students with effective job development skills that will assist them in obtaining and keeping an internship or a job in the student's major area. Course content will include understanding the application of education to the workforce; the responsibilities of an internship (where applicable); completion of Title V papers (the student's Application, Learning Objectives, Timesheet, and Evaluations) which document the student's progress and hours spent at the work or internship site; and developing workplace (soft) skills identified by the Secretary's Commission on Achieving Necessary Skills (SCANS) Competencies as well as by local employers. In addition, the student is required to fulfill 18 hours lecture and 75 hours of related, paid work experience or 60 hours of volunteer work experience for one unit; 75 or 60 hours of related work experience for each additional unit. The program allows the transfer student to combine practical, paid or non-paid work experience with college training. The course may be taken up to four times when there is new or expanded learning on the job for up to 16 units.

Sacramento City College

Classified Staff

Alexander, Almorris A.
Custodial Services

Ames, Raymond
Custodial Services

Anderson, Michelle
Admissions and Records

Arashiro, Nancy
EOPS

Armwood, Athea R.
Child Development

Balog, Stephen A.
Business Division

Barnes, Linda L.
Admissions & Records

Sashaw, Christina
Counseling Services (Esp)

Baume, Teresa A.
Disability Resource Center

Bickley, Robert N.
Learning Resources Center

Bince, Cheri M.
Humanities & Fine Arts

Blackshire, Yolonda P.
Technology Division

Blake, Linda S.
Custodial Services

Braziel, Lyle W.
Custodial Services

Brootkowski, Julia R.
Planning/Research

Brown, Alfred
Campus Police Office

Bruce, Loretta M.
Child Development Center

Bryant, Suzette L.
Counseling Services

Buckner, Tristan
Math, Science, and Engineering

Burch, Suzette L.
Counseling Services

Burney-Aldrich, Gail
President's Office

Byers, Vicki K.
Operations

Carroll, Andrea C.
Operations

Castelle, Michael A.
Custodial Services

Casterline, Karen L.
Physical Education

Catania, Anthony
College Store

Chekmarev, Vladimir
Custodial Services

Chestnut, Romona
Child Development Center

Chewning, Karen D.
Operations

Ching, Timothy F.
Learning Resources Center

Clark, Robert L.
Information Technology

Clem, John R.
College Store

Clinger, Richard W.
Humanities & Fine Arts

Cobian, Ramona V.
EOPS

Cohen, Robert B.
Information Technology

Coles, Linda G.
Business Office

Collins, Susan R.
Learning Resources Center

Colozzi, Michael
Learning Resources Center

Cook, Ann
Language and Literature

Cook, Samuel W.
Information Technology

Cosentino, James L.
Information Technology

Costa, Robert L.
Campus Police Office

Cotton, Vincent
Custodial Services

Cousin, Patricia S.
Learning Disability Program

Crankfield, Jr., Varnell
Science and Allied Health

Crawford, Julie A.
Child Development Center

Cross, Dolores
Learning Resources Center

Crossley, Robert L.
Operations

Cull, Jay L.
Planning/Research

Davis, Carl A.
Counseling Services

Delgado, Guadalupe
EOPS

Delira, Karen M.
Counseling Services

DeNigris, Robert C.
Duplicating Services

Denley-Willis, Kimberly
Business Office

Diller, Robert G.
Technology Division

Dimond, Iris J.
Behavioral & Social Science

Dolan, Mary T.
Instructional Services

Dolan, Mary T. (Sr.)
Language & Literature

Dorn, Kathleen A.
Admissions and Records

Downes, Myrletta A.
Admissions & Records

Drake, Cathy L.
Duplicating Services

Driver, Richard A.
Davis Center

Duques, Melba L.
Financial Aid Office

Duresky, Laurie A.
Learning Resources Center

Elston, Allen J.
Learning Resources Center

Elston, Tawny J.
Instructional Services

Escobar, Yolanda J.
Learning Resources Center

Fassett, Rosemary L.
Planning/Research

Florez, Robert D.
Custodial Services

Fong, Miriam F.
Humanities & Fine Arts

Foster Corley, Camala D.
Counseling Services

Fredricks, Donald W.
Custodial Services

Gage, Charlene
Learning Resources

Gaither, Roy A.
Technology Division/Hangar

Gambrell, Deborah M.
Matriculation/Student Development

Gano, Dana
Business Office

Garcia, Arnoldo
Physical Education

Garcia, Coral D.
Business Office

Garcia, Diego
Operations

Garza, Delissa G.
Counseling Services

Gates, John E.
Technology Division

Gaughan, Thomas A.
Technology Division

George, Margaret A.
Learning Resources Center

Goff, Kimberly M.
Admissions & Records

Goff, Martha E.
Science and Allied Health

Goldberg, Sherri B.
Counseling Services

Goodwin, Betty J.
Child Development Center

Goodwin, Robert J.
Custodial Services

Graham, Charlene M.
President's Office

Griffin, Jennifer L.
Humanities & Fine Arts

Guillaume, Kathleen
Admissions & Records

Gyles, Stefanie L.
Learning Resources Center

Hajek, Terry M.
Learning Resources Center

Hale, Gary C.
Custodial Services

Hamilton, Terri A.
Science and Allied Health

Hanamoto, Claire M.
Science and Allied Health

Hans, Janice
Language and Literature

Hanson, Wyanda K.
Custodial Services

Harper, Yoshiko
Child Development Center

Harrell, Kim
Physical Education

Harvey, Michael D.
Receiving

Heidt, Jr., Robert F.
Business Office

Heisleman, Robert B.
Matriculation/Student Development

Hibbard, Linda J.
Counseling Services (Ld)

Hindsman, Sharon E.
Child Development Center

Hosokawa, Doreen F.
Graphic Impressions

Houston, Lyle P.
Custodial Services

Humphries, Charlotte
Admissions & Records

Hurst, Christine M.
Matriculation/Student Development

Irwin, Kelly R.
Learning Resources Center

Iwamasa, Debra K.
Admissions & Records

Jackson, David
Physical Education

Jakab, Alena
Custodial Services

Jimenez, Mayra J.
Counseling Services/Intl Students

Johnson, Andrellia L.
Child Development Center

Johnson, Donna B.
Counseling Services

Jones, Esther
Instructional Services

Jones, Jr., Roosevelt
Technology Division

Jones, Stephen C.
Humanities & Fine Arts

Jordan, Robert H.
Information Technology

Kalber, Linda G.
Public Information Office

Kelly, Gail G.
Dental Health

Kelly, Robert D.
Information Technology

Kenny, Charles L.
College Store

Kephart, II, George
Campus Police Office

Kinoshita, Naomi
Learning Resources Center

Kivlin, Holly E.
Counseling Services

Kozinkowska, Barbara L.
Child Development Center

Krantz, Janet S.
Mathematics, Statistics, and Engineering

Lafferty, Tony V.
Campus Police Office

Lake, Janet E.
Downtown Center

Lakin, Kimberly A.
Counseling Services

Lampano, Jinky-Jay
Campus Police Office

Ledet, Shawn
Learning Resources Center

Lee, Aprill
Campus Police Office

Lee, Jeffrey K.
Custodial Services

Lee, Jennifer
Business Division

Lensky, Petr
Custodial Services

Leon, Annette C.
Technology Division

Les, Halida
Financial Aid

Locke, Elizabeth
Counseling Services

Lopez, Peggi A.
Business Office

Lor, Ge Vang
Financial Aid Office

Love, Duane
Campus Police Office

Lovette, Christine M.
Campus Police Office

Lowe, Barbara
Custodial Services

Lukenbill, Karen L.
Admissions & Records

Luna, Nicole R.
Public Information Office

Machado, Laura F.
Business Division

Maga, Patricia
Financial Aid Office

Maghanoy, Jr., Restituto M.
Duplicating

Marsant, Irina
Matriculation/Student Development

Martin, David H.
Learning Resources Center

Martin, Dena R.
Learning Resources Center

Masters, Carol A.
EOPS

McHatton, Ann
College & Community Relations

McKay, Tamara A.
Admissions & Records

McKnight, Earnestine
Counseling Services/ESP

McLaughlin-Jordan, Margaret J.
Physical Education

McManus, Rhonda A.
Counseling Services

McVarish, Ivor
Matriculation/Student Development

Melkonyan, Gegham
Math/Statistics/Engineering

Mendoza-Marin, Margarita
Behavioral & Social Science

Mixon, Loren
Campus Police Office

Molloy, Kandy D.
EOPS

Moore, Carol E.
Matriculation/Student Development

Moreno, Carla A.
Child Development Center

Moua, Then K.
Financial Aid

Nguyen, William Son
Business Division

Nixon, Debra A.
Learning Resources Center

Nosler, Thelma L.
Admissions & Records

Ochoa, Ruth M.
Language and Literature

Olender-Rowe, Nanci L.
Learning Resources Center

Ortiz, Marcia L.
College and Community Relations

Outlaw, Harry E.
Custodial Services

Pair, Gerald W.
Custodial Services

Palka Andrzejewska Henry, Ewa J.
Counseling Services

Paul, Don A.
Campus Police Office

Pearson, Robert
Custodial Services

Pena, Anthony
Custodial Services

Perry, Marilyn Keefe
Instructional Services

Peterson, Lon E.
Technology Division

Pham, Ly
Custodial Services

Phillips, Catherine
Financial Aid Office

Phillips, Jane E.
Learning Resources Center

Pihera, Lynn
Humanities & Fine Arts

Porrine, Jo An O.
Counseling Services

Poteet, Rhonda A.
Counseling Services

Pratt, Diana
Instructional Services

Pulskamp, Cailin
Child Development Center

Quesada, Charlie P.
Admissions & Records

Quigley, Frances A.
Business Division

Rahimi, Sandra S.
Child Development Center

Raught, David J.
College Store

Rockne, Lisa M.
Child Development Center

Rud, Yelena
EOPS

Ruiz, Alicia
Counseling Services

Ruiz, Ruben I.
Financial Aid

Sachau, Michael T.
West Sacramento/Downtown Centers

Salman, Camille A.
Technology Division

Sanders, Juanita E.
Counseling Services (DRC)

Scarborough, Cody M.
Child Development Center

Schultz, Louann
Business Office

Scroggins, Kenneth W.
Child Development Center

Sekikawa, Allison S.
Graphic Impressions

Shepard, Shirley A.
Campus Police Office

Shetab, Nasreen
Child Development Center

Sieler, Gary W.
Custodial Services

Silva, Donald T.
Humanities & Fine Arts

Sisk, Laura A.
Custodial Services

Sivell, Nicole C.
Humanities & Fine Arts

Smith, Melody J.
Custodial Services

Smith, Stephanie A.
Administrative Services

Smith, Terri L.
Admissions & Records

Smithson, Pamela K.
Custodial Services

Solorio, Jeanette R.
Financial Aid Office

Souza, Monica M.
Matriculation/Student Development

Stafford, Anita L.
Science and Allied Health

Stagner, Elaine R.
Counseling Services

Stanton, Patricia P.
Counseling Services

Stearns, Janelle R.
Learning Resource Center

Sterken, Dale D.
Business Division

Taylor, Kathleen M.
Mathematics, Statistics, and Engineering

Teh, Peng (Hendrich) A.
Language & Literature

Teramoto, Amie
Learning Resources Center

Terry, Sharon D.
Information Technology

Thao, Cha P.
Allied Health

Thomas, Kelly L.
Language & Literature

Tien, Le N.
Science and Allied Health

Tran, Minh N.
Counseling Services

Tran, Ngoc-Hau (Sharlene)
Matriculation, Student Services

Turner, Reginald
Custodial Services

Tutunik, Valeriy
Business Division

Uhde, Larry J.
Technology Division

Valverde, Tracey A.
Learning Resources Center

Vevea, Rosemary L.
Admissions & Records

Vinayagamoorthy, Jasotha
Science and Allied Helath

Viracola, Marcia J.
Child Development Center

Watson, Marlene R.
College Store

Weller, Diane Y.
College Store

Whittington, David J.
Physical Education

Wilder, Julia A.
Science and Allied Health

Wilkins, Regina
Student Services

Wolf, Gary L.
Custodial Services

Wong, Peter W.
Technology Division

Yagen, Paul
Campus Police Office

Yee, Domina M.
Business Division

Young, Mary Helen
Child Development Center

Zafires-Bain, Rebecca
College and Community Relations

Zakaryan, Ruzanna
Admissions and Records

Zavala, Manual M.
Custodial Services

Faculty
Alphabetical Listing

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 - Athletic Emphasis
B.A., University of the Pacific
Masters of Counseling, Idaho State University

Altmann, John M. (1997)
Music
B.A., M.A., California State University, San Francisco

Anderson, Kevin M. (2001)
Computer Information Science
B.S., California State University, Fresno
B.S., M.B.A., California State University, Stanislaus
Microsoft Certified Trainer (MCT)
Microsoft Certified Systems Engineer (MCSE)
Microsoft Certified Database Administrator MCDBA)
Microsoft Certified Professional + Internet (MCP + I)
Cisco Certified Network Associate (CCNA)
Certified Novell Engineer (CNE)
Linux Certified Professional (LCP)
A+ Certified Service Technician (A+)
Network + (N+)
i-Net + (inet +)

Armstrong, Joseph W. (2000)
Railroad Operations
A.A.S., Arizona Western College
B.S., San Jose State University
M.A., National University

Arnold, Darlene M. (1996)
Cosmetology
A.A., Sacramento City College
B.S., Southern Illinois University

Bacod, Maristella L. (2001)
EOPS Counselor
A.A., Cosumnes River College
B.A., M.S., California State University, Sacramento

Bahhur, Riad N. (2002)
History
B.A., Ohio State University
M.A., Georgetown University

Barfield, Annette C. (1989)
Counselor
A.A., Sacramento City College
B.A., M.S., California State University, Sacramento

Bauduin, Lisa A. (1992)
Physical Education
B.S., North Dakota State University

Bennett, Dianne A. (2002)
Chemistry
B.S., California State University, Sacramento
Ph.D., University of California, Berkeley

Beyrer, Kimberlee D. (1999)
Coordinator, Campus Life
B.A., University of California, San Diego
M.Ed., Oregon State University
Phi Theta Kappa Leadership Development Studies Certification

Bielick, Joanne M. (1989)
Philosophy
B.A., DePaul University
M.A., University of Minnesota

Blackwell, David A. (1997)
Dean, Division of Mathematics, Statistics and Engineering
B. A., California State University, Sacramento
M.A.T., University of California, Davis

Blair, Deborah M. (1988)
Physical Education
A.A., Ventura Junior College
B.A., California State University, Sacramento

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

Bodley, Derrill G. (2000)
Music
B.M., M.M., University of Rochester
Ed.D., University of the Pacific

Borg, Myra L. (1990)
Dean, Matriculation and Student Development
B.A., M.A., University of California, Davis
M.L.S., University of California, Berkeley

Bonawitz, Marcia C. (2000)
Cosmetology

Boyte, Kari L. (1998)
Dean, Division of Behavioral & Social Sciences
B.A., California State University, Sacramento
M.A., California State University, Chico
Ph.D., University of Nebraska

Brooks, Bradley A. (1990)
Mechanical-Electrical Technology
A.A., Monterey Peninsula College
B.S., California State University, San Luis Obispo
M.A., California State University, Chico
Ed.D., Southeastern University

Brosin, Jonathan W. (1970)
Biology
B.S., M.S., University of California, Davis

Brown, Shirley (1976)
Physical Education
B.A., San Francisco State University
M.A., Mills College
M.S. University of La Verne

Bruce, Thomas E. (1972)
Sociology
B.A., M.A., University of Northern Iowa
M.A., University of San Francisco

Bryant, Deborah M. (1987)
Mathematics
B.A., California State University, Chico
M.A., California State University, Sacramento

Burbage, Gregory M. (1991)
Accounting
A.A., College of the Redwoods
B.A., Humboldt State University
M.B.A., California State University, Sacramento
Certified Public Accountant - California
Certified Management Accountant
Certified in Financial Management

Caldwell, Zoe (2002)
Chemistry
B.S., M.S., California State University, Sacramento

Camarena, Kathleen T. (2001)
Computer Information Science
B.S., University of Davis
M.S., Nova/Southeastern University

Carlson, Joanne S. (2000)
Nursing
B.S.N., Salem State College
M.N., University of California, Los Angeles

Carmazzi, Paul L. (1991)
Physical Education
A.A., Sacramento City College
B.S., M.A., M.B.A., California State University, Sacramento

Carmichael, David (1987)
Physical Education
B.S., California State University, Fullerton
M.A., Azusa Pacific University

Carriere, Sue R. (1999)
Nursing
AA., Foothill College
B.S.N., University of California, Los Angeles
M.S.N., California State University, Long Beach
Registered Nurse
Clinical Nurse Specialist

Carroll, Robert (1977)
Philosophy
B.A., M.A., Ph.D., University of California, San Diego

Cavanaugh, Judith M. (1974)
Vocational Nursing
B.S., College of St. Catherine
M.A., California State University, Sacramento

Cervin, Richard S. (2001)
English As A Second Language
B.A., California State University, Fullerton
A.M., Ph.D., University of Illinois
TESOL Certificate

Chambers, Carole T. (1988)
English
B.A., University of California, Berkeley
M.A., University of San Francisco

Chape, Elizabeth A. (1993)
Instructor/Coordinator, Physical Therapy Assistant Program
B.A., Michigan State
M.P.T., Baylor University
M.S., San Francisco State University
Licensed Physical Therapist, California and Washington State

Chen, Shu (2002)
Librarian
B.A., Nanjing Normal University
M.A., Southern Illinois
M.L.I.S., University of Texas, Austin

Chenu-Campbell, Catherine (1981)
Librarian
B.A., University of California, Davis
M.S., Columbia University

Chinn, 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

Christensen, Steven E. (2003)
English (Reading)
A.A., Rio Hondo College
B.A., Whittier College
M.A., California State University, Los Angeles

Clark, Joyce M. (1973)
College Nurse
B.S., San Francisco State University
M.S., University of La Verne
Registered Nurse
Public Health Nurse

Clark, Kevin E. (2002)
Sign Language Studies
B.A., Gallaudet University
M.S., California State University, Northridge
M.A., Chapman College

Cohen, Dale (1981)
Associate Degree Nursing
B.S., M.S., University of Illinois

Comins, James L. (1981-92) (1999)
Associate Vice President, Instruction-Economic and Workforce Development
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 Statue University, Sacramento

Copely, Douglas M. (1999)
Physics
A.B., Occidental College
M.S., Ph.D., University of Colorado

Cosper, Michael R. (2002)
Graphic Communication
B.A., California State University, Sacramento

Crowe, Billy (1975)
Welding
A.S., Sacramento City College
B.V.E., California State University, Sacramento

Curiale, Angela (1982)
Social Science/Basic Skills
A.A., Staten Island Community College
B.A., City University of New York
M.A., Ph.D., United States International University

Cypret, Phillip B. (1984)
Dean, Division of Technology
A.A., Sacramento City College
B.S., Southern Illinois University
M.S., National University

Dalkey, Fredric (1971)
Art
B.A., M.A., California State University, Sacramento

Dana, Maureen L. (2000)
English
B.A., University of California, Santa Barbara
M.A., Ph.D., Claremont Graduate University

Daubert, Christopher D. (2001)
Art
B.A., M.A., California State University, San Jose
M.F.A., University of California, Davis

Davis, Craig A. (2000)
Geography
B.S., University Nebraska
M.A., University of Kansas

Davis-Lyman, Barbara L. (1971)
Family & Consumer Science, Sociology, Psychology
B.A., M.A., California State University, Sacramento

Deglow, Annette (1964)
Mathematics
B.S., University of Oregon
M.S., University of Arizona
M.L.S., California State University, Sacramento

DeLucia, Andrew W. (1972)
Photography
A.A., Sacramento City College
U.S.A.F., Photography School
B.V.E., California State University, Sacramento

Deus, Richard A. (1990)
Management
B.S., California State Polytechnic University, Pomona
M.B.A., San Francisco State University

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.SCS., B.S.E.E., M.E., M.E.A., University of Utah, Salt Lake City
Certified Data Processor

Dun, Lawrence G. (1996)
Dean, Student Services
B.A., University of California, Davis
M.A., California State University, Sacramento

Dunne, Michael (1974)
Director, Dental Health
B.A., California State University, Chico
D.D.S., Creighton University

Duvall, Melvin (1983)
Electronics Technology
A.A., Sacramento City College
B.A., California State University, Sacramento
FCC - General Radiotelephone License
Movonics Co. - Understanding and Troubleshooting Microprocessors - Certificate
Cal State Polytechnic University, Pomona-NARDA School of Service Management - Certificate

Erlich, Richard J. (2001)
Counselor
B.A., Butler University
M.Ed., Teacher College Columbia University
Certified Rehabilitation Counselor

Esquibel, George A. (1972)
Art
B.A., California State University, Sacramento

Fabionar, David E. O. (2002)
Communication
B.S., M.A., California State University, Sacramento

Fabionar, Maria O. (1990)
Counselor
B.A., M.S., California State University, Sacramento

Feder, Sandra H. (1997)
Computer Information Science
B.S., University of California, Davis
M.S., University of Nevada, Reno
APICS Certification, Certified in Production and Inventory Management

Finley, Phillip E. (1991)
Engineering Design Technology
B.A., University of Oregon
Registered Architect, Alaska and California

Fitzpatrick, Kenneth E. (1999)
Engineering Design Technology
B.S., Oakland University

Flaherty, Pamela L. (2000)
Sociology
B.A., University of Wyoming
M.A., California State University, Chico

Fleming, George Richard (1969)
Photography
A.A., Sacramento City College
B.V.E., California State University, Sacramento

Foley, Jo-Ann C. (1999)
Family and Consumer Science
B.S., University of California, Davis
M.A.Ed., University of San Francisco

Fong, Susan H. (1989)
Counselor
A.A., Sacramento City College
B.A., San Francisco State University
M.S., National University

Ford, Rebecca J. (1989)
English as a Second Language
B.A., M.A., University of California, Davis

Forrester, Elizabeth V. (2000)
Philosophy
A.B., Cedar Crest College
M.A., California State University, Sacramento
M.A., Ph.D., University of California, Davis

Frank, Paul E. (2001)
Political Science
B.A., California State University, Fresno
M.A., Northeastern University
Ph.D., Boston University

Garabato, Gary P. (2002)
Physical Education
B.A., Chadron State College
M.S., Wayne State College

Garcia, Albert J. (1991)
English
B.A., California State University, Chico
M.F.A., University of Montana

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

Gillespie, Brian D (2003)
Biology
B.S., M.A., Humboldt State University

Ginsburg, Liz (1972)
Spanish
B.A., California State University, Sacramento
M.A., Ph.D., University of California, Davis

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

Graybill, Stuart D. (2001)
History
B.A., M.A.T., Ph.D., University of California, Davis

Green, Melissa J. (2000)
Coordinator, Instructional Development
B.A., California Polytechnic State University
M.S., National University

Greenfield, Joan (1974)
Dental Assisting
A.A., Sacramento City College
B.V.E., California State University, Sacramento

Greenwell, Andrea (2002)
Biology
B.S., University of California, Davis
M.S., University of Nevada, Reno

Griffin, David A. (1995)
Physical Education
B.A., California State University, Chico
M.A., National University

Gunderson, Lisa M. (2003)
Psychology
Ph.D., M.A., B.A., University of Southern California

Haag, Janis L. (1993)
Journalism/English
B.A., M.A., California State University, Sacramento

Handel, Janet L. (1987)
Mathematics
A.A., Diablo Valley College
B.S., California State University, Hayward
M.S., Holy Names 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

Hargerty, David D. (2002)
Human Career Development (Learning Strategies)
B.A., Vassar College
M.S., California State University, Hayward

Harris-Jenkinson, Patricia M. (1999)
Instructor/Coordinator, Speech Communication
B.S., M.A., California State University, Sacramento

Harris, Robert M. (1987)
President
B.A., University of California, Santa Barbara
M.A., Ph.D., University of Kansas

Hart, Beora (1997)
Coordinator, EOP&S
A.A., Sacramento City College
B.A., M.A., California State University, Sacramento

Hatton, Ronald (1981)
Mathematics
B.S., M.A., California Polytechnic State University, San Luis Obispo

Hawthorne, Julie A. (1989)
Speech/English
A.A., Santa Barbara City College
B.A., University of California, Santa Barbara
M.A., California State University, Sacramento
Certificate in Advanced Facilitation, CFIER/CCS, California Foundation for Improvement of Employer-Employee Relations

Heimer, Dianne L. (1997)
English/Journalism
B.A., San Diego State
M.A., California State University, Sacramento

Henderson, Victoria (1998)
Coordinator, Cultural Awareness Center
B.S., M.S.W., Western Michigan University
M.S.H.R., American University

Heningburg, Keith R.V. (1999)
History
A.A., Washtenaw Community College
B.S., M.A., Eastern Michigan University
M.A., University of California, Davis

Hilligoss, Tonya (1977)
Administration of Justice, Sociology
B.A., University of California, Santa Barbara
M.S.W., San Diego State University
M.A., University of California, Davis
Marriage and Family Therapist

Hinerman, James (1975)
Counselor
B.S., M.Ed., Bowling Green University

Hogarty, Patrick J. (2000)
Computer Information Science
B.S., California State University, Sacramento

Holt, Julie A. (1999)
Associate Degree Nursing
B.S.N., California State University, Chico
M.S.N., University of Colorado Health Science Center

Hsieh, Patricia C. (2000)
Vice President, Student Services
Ed.D., Pepperdine University

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

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

Iwata, Chris R. (1982)
Dean, Division of Humanities and Fine Arts
B.A., M.A., California State University, Northridge

Medina, Renee M. (2001)
Mathematics
B.A., M.A., California State University, Sacramento

James, Stephen C. (2001)
Biology
A.A., Glendale Community College
B.A., University of California, Santa Barbara
M.S., California State University, Sacramento

Janssen-Kays, Kristine (2000)
Counselor
A.A., Yuba Community College
B.A., California State University, Sacramento
M.A. University of San Francisco

Johnson, 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)
Dean, Division of Language and Literature
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

Jones, Ellis M. (2002)
Sociology/Service Learning Coordinator
B.A., University of Southern California
M.A., University of Norte Dame

Jovanovic, Angelia (1991)
Assessment Counselor
B.A., University of Wisconsin
M.S., Marquette University

Joy, Anna L. (1987)
English
B.A., M.A., Ph.D., University of California, Los Angeles

Kalber, Thomas F. (1979)
Mechanical-Electrical Technology
A.S., Sacramento City College
B.S., Southern Illinois University

Kawamura, Sandra Y. (2001)
English As A Second Language
B.A., University of California, Davis
M.A., California State University, Sacramento

Keen, Judith L. (1996)
English As A Second Language
B.A., Lewis & Clark College
M.A., School for International Training

Kent, Donald (1965)
Mathematics
B.S., M.A., California State Polytechnic University

Keys, Alan S. (2000)
Instructor/Coordinator, Psychology/ Research
B.A., California State University, Northridge
M.A., Ph.D., University of California, Los Angeles

Kidrick, Valerie A. (2000)
Art
B.A., M.A., University of Utah
Ph.D., University of Iowa

Kiernan, Timothy C. (1991)
Physical Education
A.A., American River College
B.S., M.A., Central Michigan University

King, Adrienne M. (1992)
English
B.A., Hampton Institute
M.Ed., Miami University (Ohio)
Ed.D., University of San Francisco
Reading Specialist Credential

King, Elizabeth R. (1999)
Business/Computer Information Science
B.B.A., Northwood University
M.B.A., Eastern Michigan University

Klein, Linda (1981)
English (Reading)
B.A., University of Florida
M.A., California State University, Chico

Kloumova, Irina (1999)
Mathematics
M.A., Moscow State University

Knable, Robert D. (1989)
Music
B.M., University of Southern California
M.M., University of Arizona

Knorr, Jeffrey, S. (2001)
English
B.A., M.A., California State University, Chico

Kumar, Shishir (1999)
Electronics Technology
B.S., Brigham Young University

Kunimura, Karen (1976)
Physical Education
A.A., Gavilan College
B.A., California State University, Fresno
M.A., University of San Francisco

Lachica, Juan (1976)
Counselor
B.A., University of California, Davis
M.S., University of Southern California

Lannom, Debra L. (1997)
Nursing
A.A., Contra Costa College
B.S., M.S., California State University, Sacramento
Registered Nurse
Certification, Red Cross CPR Instructor
Certification, Medical-Surgical Nurse Board, American Nurses Credentialing Center

Larson, Carillon J. (2001)
Mathematics
B.A., M.A., California State University, Sacramento

Larson, Marie C. (1991)
English As A Second Language
B.A., Occidental College
M.A., San Jose State University

Lawson, Douglas R. (2000)
Theatre Arts
B.A., California State University, Sacramento
M.F.A., University of California, Davis

Lee, Jan (2000)
English
B.A., University of California, Davis
M.A., California State University, Sacramento

Lewis, Ann (2001)
English
A.S., Yuba College
B.A., University of California, Davis
M.A., California State University, Sacramento

Licciardi, Anne E. (1999)
Mathematics
B.A., M.A., Rhode Island College

Lindell, Pamela N. (2001)
Anthropology
B.A., California State University, Humboldt
M.A., Ph.D., University of Nevada, Reno

Lo, Sandra J. (1989)
Dental Assisting
B.A., University of California, Berkeley
D.D.S., Baylor College of Dentistry, Texas

Loomis, Debora A. (1994)
English As A Second Language
B.A., M.S., M.A., California State University, Sacramento

Lopez, Gloria M. (1990)
Family and Consumer Science
B.S., University of California, Davis
M.A., University of San Francisco

Low, Stephanie (2001)
Computer Information Science
Certificate, Online Teaching, Cerro Coso Community College
B.S., M.S.Ed., Southern Illinois University

Lucien, Darreis V. (1988)
Associate Degree Nursing
A.A., El Camino City College
B.S.N., Long Beach State University
M.N., University of California, Los Angeles

Luff, Debra J. (2000)
Dean, Downtown/West Sacramento Centers
A.S., North Country Community College
B.S., Russell Sage College
M.S., Syracuse University
Ed.D., University of the Pacific

Maglione, Robert A. (2001)
Physical Education
B.A., College of Marin
M.A. Saint Mary's College

Malaret, Jesus F. (1998)
History
B.A., University of Texas
M.A., California State University, Sacramento

Maller, Yvonne B. (1993)
Learning Resource
M.A., University of Silesia, Poland
M.A., California State University, Sacramento

Maloney, Lori A. (1988)
Mathematics
A.A., Santa Rosa Junior College
B.A., San Francisco State University
M.A., University of California, Davis

Maloyed, Lynda L. (1997)
Vocational Nursing
A.A., Sacramento City College
B.S.N., California State University, Domingues Hills

Martinez, Jesus E. (1994)
Mathematics
A.A., East Los Angeles College
B.A., M.S., California State University, Los Angeles

Martensen, Carol B.G. (2000)
Coordinator, Mathematics Laboratory
A.B., University of California, Berkeley
M.S. New York University, Courant Institute

Maschmeyer, Marie L. (1974)
Family & Consumer Science
B.S., Oregon State University

Masterson, Patricia J. (1999)
Sign Language Studies
A.A., Sacramento City College

May, Alexander R. (1996)
Mathematics
B.A., M.A., California State University, Sacramento

May, Virginia S. (1997)
Mathematics
B.A., M.A., California State University, Sacramento

McDaid, William J. (2001)
Astronomy
B.S., Pennsylvania State University
M.S. New Mexico State University

McDonald, Patrick J. (2002)
Mathematics
B.A., California State University, Fullerton
M.A. California State University, Sacramento

McDonald, Stephanie R. (2000)
Librarian
B.S.Ed., Temple University
M.L.S., University of Hawaii

McKay, Ryan A. (2000)
Physical Education
A.A., Sacramento City College
B.A., M.B.A., California State University, Sacramento

McKee, Georgeann M. (1996)
Administration of Justice
A.A., Sacramento City College
B.A., National University

McReynolds, Virginia R. (1986)
English/Journalism
B.A., M.A., California State University, Sacramento

Mendez-Nunez, Luis R. (1999)
Mathematics
B.S., M.S., University of Madrid
Ph.D., University of Davis

Meyer, Virginia C. (1996)
Biology
A.A., College of the Redwoods
A.B., Humboldt State University
M.S., California State University, Sacramento
Clinical Laboratory Technologist License, California

Miller, William JW (2000)
Chemistry
B.S., University of Delaware
Ph.D., University of California, Davis

Miner, Thomas E. (1991)
English
Certificate, English as a Second Language
B.A., University of Connecticut
M.A., SUNY, Albany

Minter, Carol D. (2000)
Dental Health
A.S., Cuyahoga Community College
B.S., California State University, Sacramento

Moffett, Nelle (2000)
Dean, Planning, Research and Institutional Effectiveness
B. A., Antioch College
M. A., Ph.D., Arizona State University

Moralez, Cecelia P. (1980)
Counselor
A.A., Sacramento City College
B.A., M.S., California State University, Sacramento
Ed.D., University of San Francisco

Muraki, Keith T. (1991)
Counselor
B.S.W., M.S.W., San Francisco State

Myers, Troy A. (1999)
English
B.A., M.A., California State University, Long Beach

Naganuma, Kenneth H. (1990)
Biology
B.A., University of California, Los Angeles
M.S., Ph.D., Stanford University

Nash, Laurie J. (2003)
Physical Education
A.A., American River College
B.A., California State Polytechnic University, Pomona
M.A., California State University, Sacramento

Newman, Forrest L. (1992)
Physics/Physical Science
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

Nowicki, Lazette B. (2002)
Nursing
B.A., Jamestown College
M.S.N., University of North Dakota
Registered Nurse

Nuss, Linda M. (2002)
Chemistry
B.S., M.S., University of California, Riverside
M.A., National University

Oh, Jang-Ha (2002)
Physical Education
B.S., M.Ed, Seoul National University

Ovesen, Dawn R. (2002)
Sign Language Studies
B.A., Gallaudet University

Pacheco, David B. (1999)
Physical Education
A.A., Sacramento City College
B.A. Idaho State University
M.S., California State University, Sacramento

Palm, Donald R. (2001)
History
B.A., University of Washington
M.A., San Francisco State University

Patton, Marcus H. (1991)
English
B.A., M.A., California State University, Sacramento

Patton, Sherri L. (2001)
History
B.A., San Francisco State University

Pease, Dyan S. (2002)
Business/Management
B.A., M.B.A., San Diego State University

Perry, Laurie M. (2000)
Instructor/Coordinator, Early Childhood Education
B.A., University of Montana
M.S., University of California, Davis
Program for Infant Toddler Caregiving Trainer
Child Development Center Program Director Permit

Phillips, Joseph H. (1988)
Mathematics
A.A., American River College
B.A., California State University, Chico
M.S., Iowa State University

Phillips, Maxine C. (1989)
Counselor
B.A., M.S., California State University, Hayward

Pitman, Gayle E. (2001)
Psychology
B.A., Tufts University
M.A., Ph.D., California School of Professional Psychology, Alameda

Pollock, Koren (1997)
Physical Education
B.A., University of California, Davis
M.A., University of San Francisco

Posz, Pamela A. (1998)
Librarian
B.A., University of California, Davis
M.S., University of Illinois

Prado, JoAnna (2002)
English As A Second Language
B.A., B.S., University of Utah
M.A., Brigham Young University

Quackenbush, Mary A. (2001)
Computer Information Science
B.A., M.A., California State University, Sacramento

Rasul, David D. (1997)
Counselor, EOP&S
B.A., M.S., California State University, Sacramento

Reding, Christine M. (1991)
Art
M.F.A., San Francisco Art Institute
B.A., University of California, Berkeley

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

Reynolds, Linda K. (1988)
Marketing
B.S., M.B.A., California State University, Sacramento

Richardson, Michael B. (1986)
Physics
B.A., California State University, Sacramento
M.A., University of California, Davis

Rishard, Truman A. (2001)
Accounting
B.S., University of San Francisco
M.B.A., Golden Gate University

Robinson, Mary A. (1998)
Librarian
B.A., University of California, Santa Barbara
M.A., M.L.S., University of Arizona
M.A., University of Hawaii

Rodden, Jennifer M. (2002)
Learning Skills/Tutorial Coordinator
A.A., Modesto Junior College
B.A., University of California, Davis
M.A., California State University, Sacramento

Rodenberg, Jennifer A. (2003)
Chemistry
B.S., California State Polytechnic University, Pomona
M.A., San Jose State University

Rodgers, Lloyd T. (1968)
Vice President, Administration
A.B., Stanford University
M.B.A., Stanford School of Business

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

Ruden, John E. (1969)
Dean, Davis Center
A.B., M.A., University of California, Davis

Ruedas, Sandra R. (2001)
Counselor
A.A., Sacramento City College
B.A., M.S., California State University, Sacramento
Pupil Personnel Services Credential

Sanchez, Michael (1981)
Mathematics
B.A., M.A., California State University, Sacramento

Sandusky, Sam T. (1984)
Dean, Admissions and Records
A. A., San Bernardino Valley College
B. A., Stanford University
M.A., University of Michigan

Sarasohn, Eileen S. (1991)
History
A.A., Sacramento City College
B.A., University of California, Berkeley
M.A., California State University, Sacramento

Sarte, Jaime M. (1999)
Biology
A.A., Ohlone College
B.A., University of California, Santa Cruz
M.A., San Jose State University

Schaefer, David H. (2002)
Business/Marketing
B.A., University of California, Santa Cruz
M.B.A., Harvard University

Schafer, Ann K. (1989)
Coordinator, Learning Disabilities
A.A., Yuba College
B.A., M.A., University of California, Davis

Schiller-Chainey, Susan L. (1983)
English
B.A., State University of New York at Cortland
M.Ed., Ph.D., University of Pittsburg

Scott, Geraldine (2001)
EOPS 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

Selva, Marcia L. (2000)
English
B.A., University of California, San Diego
M.A., California State University, Sacramento

Serafini, Lisa L. (1993)
Biology
B.S., University of Michigan
M.S., University of California, Davis

Severson, Michael L. (1996)
Speech
B.A., California State University, Stanislaus
M.A., California State University, Fresno

Shaskan, Isabel (1968)
Art
B.A., Stanford University
M.A., Brandeis University
M.A., University of California, Davis

Sheppard, Laurie C. (2000)
Nursing
B.S.N., San Diego State University
M.S.N., San Jose State University
Registered Nurse

Sheppard, Marian L. (1986)
Assessment Counselor
B.A., M.MEd., M.A., University of the Pacific
Marriage and Family Therapist

Short, Shirley J. (1982)
Dean, Division of Business
A.A., City College of San Francisco
B.A., M.A., California State University, Sacramento

Silcox, S. Travis (1998)
English
B.A., Pitzer College
M.F.A., University of California, Irvine
M.A., Ph.D., University of Santa Cruz

Siu, Jennifer H. (1989)
Vocational Nursing
B.S.N., University of San Francisco
M.S.N., University of Texas, Health Science Center

Sjovold, Carl-Petter (2001)
History
Certificate, Online Instruction, Cerro Coso College
B.A., University of California, Berkeley
M.A., Ph.D., University of California, Davis

Slobodnik, Wendy J. (1999)
Coordinator, Work Experience Education
B.A., M.A., California State University, Sacramento

Smedley, Lauri J. (1999)
Business/Computer Information Science
A.A., Cosumnes River College
B.V.E., California State University, Sacramento
M.S., Golden Gate University, Sacramento

Smith, Dennis R. (1997)
Accounting
B.S., M.S., California State University, Sacramento

Sodergren, Kit (1989)
Aeronautics
B.S., Saint Louis University
F.A.A. Licensed Pilot

Standley, Ellen (1973)
Dental Hygiene
B.S., University of California Medical Center
M.A., University of San Francisco

Steed, S. Paul (1991)
Chemistry
B.S., Ph.D., Brigham Young University

Steward, Mary M. (2001)
English
B.S., M.Ed., University of Missouri

Stinson, Douglas L. (1969)
Mechanical-Electrical Technology
A.S., Sacramento City College
B.V.E., California State University, Sacramento
General Building Contractor's License

Stone, Leila (1998)
Counselor/CalWORKs (Categorical)
A.A., Yuba College
B.A., University of California, Davis
M.S., California State University, Sacramento

Stoner, Jr., William (1981)
Mathematics
B.S., M.S., University of California, Davis

Stroh, Linda L. (1983)
Economics, Accounting
B.S., Eastern Illinois University
M.A., California State University, Fresno

Styer, Daniel L. (2003)
Engineering
B.S. California State University, Sacramento
Ph.D., University of California, Davis

Sullivan, Jerry (1980)
Physical Education
B.S., M.Ed., Oregon State University

Takanikos, John (1969)
History
A.A., Sacramento City College
A.B., M.A., Ph.D., University of California, Davis

Takeguchi, Elsie (1976)
Family & Consumer Science
A.A., Reedley College
B.S., Iowa State University
M.A., California State University, Sacramento

Tambert, Roxanne R. (1997)
Cosmetology
A.A., Sacramento City College
B.A., Southern Illinois University

Tanner, Judith (1974)
College Nurse
B.S.N., University of Illinois
M.S., University of California School of Nursing
Registered Nurse
Public Health Nurse

Taylor, Timothy K. (1998)
Computer Information Science
A.A., American River College
B.A., Brigham Young University
B.S., California State University, Sacramento
CISCO Certified Academy Instructor

Tedla, Dagne (1991)
Political Science
B.A., M.A., California State University, Sacramento

Thomas, D. Brett (1997)
English As A Second Language
B.A., Tufts University
M.A., University of California, Davis
M.A., Indiana University

Thomas-Val, Jacinth P. (2001)
English
B.A., University of the Virgin Islands
M.A., Andrews University
M.A., Ph.D., University of Illinois

Thorpe, W. Steve (1991)
Administration of Justice
A.A., Sacramento City College
B.A., California State University, Sacramento
M.A., Consortium of California State University

Tibbals, Kathleen A. (2001)
Early Childhood Education
A.A., American River College
B.A., Chapman University
M.S., Nova University

Torgeson, Gary E. (1994)
Dean/Athletic Director, Division of Physical Education, Health & Athletics
B.A., M.A., California State University, Northridge

Travis, Deborah J. (2000)
Vice President, Instruction
B.A., California State University, Irvine
M.B.A., California State University, Long Beach

Triana, Luz C. (2003)
Spanish
B.A., M.A., San Francisco State University

Triphon, Joann E. (1998)
Associate Degree Nursing
A.D.N., Chabot College
B.S.N., M.S.N., California State University, Sacramento

Tromborg, Chris T. (2002)
Psychology
B.S., M.A., California State University, San Francisco
M.A., Ph.D., University of California, Davis

Turner, Mary K. (1985)
Dean, Division of Science and Allied Health
A.A.S., Hawkeye Institute of Technology
B.S., M.S., University of Missouri at Kansas City

Uber, James (1981)
Welding, Metals
A.A., American River College
B.S.V.E., M.A., Consortium of California State University
M.A., Chapman College

Valerio, Armando I. (2003)
Physical Therapy Assistant
A.A., San Joaquin Delta College
B.S., California State University, Sacramento
M.S., University of the Pacific

VanSickle, Debra L. (1990)
Mathematics
B.A., M.A.T., University of California, Davis

Vellucci-Jones, Renee L. (1995)
Vocational Nursing
A.A., Sacramento City College
B. A., California State University, Sacramento
M.S.N., California State University, Dominguez Hills

Vrechek, Jean A. (1985)
Mathematics
B.S., University of Illinois
M.A., San Jose State University

Wagner, Glennda G. (1999)
Associate Degree Nursing
B.S.N., Wichita State University
M.S., University of California, San Francisco

Waite, Ava M. (1984)
Family & Consumer Science
A.A., Sacramento City College
B.A., California State University, Fresno
M.S., Colorado State University

Walker, Norman M. (2001)
Mathematics
B.S., M.A., University of California, Davis

Wang, Hsiao J. (1989)
Mathematics
B.A., National Taiwan University
M.S., California State University, Fresno

Warmington, Sandra K. (1996)
Librarian
B.S., University of Oregon
M.L.I.S., University of California, Berkeley

Warrell, Patricia L. (1998)
Nursing
A.D.N., University of Hawaii
B.S.N., M.N., University of Phoenix

Waxman, Robyn B. (1999)
Graphic Communication
B.S., University of Delaware

Wei, Timothy T (2001)
Computer Information Science
B.S., Cheng Kung University, Taiwan
M.S., University of Berkeley

Welch, Diane (1978)
Director, Nursing
Diploma, St. Thomas School of Nursing Nashville
B.S., California State University, Sacramento
M.S.N., University of California, San Francisco

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

Wiecking, Kirk (1982)
Coordinator, Distance Education
B.A., M.A., San Francisco State University

Wilbur, Constance A. (1997)
Counselor/Coordinator, Disability Resource Center
B.A., San Diego State University

Winther, Carl David (1972)
Graphic Communication
Certified Macintosh Technician
A.A., Sacramento City College

Woo, Jane
Counselor
B.S., California State University, Sacramento
M.A., National University, Sacramento

Woolley, Nicole (1998)
Librarian
Certificate, Online Teaching, Cerro Coso College
B.A., California State University, Sacramento
MLIS, Louisiana State University

Womach, Jesse F. (1999)
Philosophy
B.A., M.A., University of California, Davis
M.A., California State University, Sacramento

Wyatt, David T. (1998)
Biology
A.S., American River College
B.S., M.S., California State University, Sacramento

Wydick, Derrick C. (1999)
Counselor/Coordinator, Workability III Program
(Categorical)
M.A., California State University, Chico

Yang, Richard (1997)
Counselor
B.A., M.A., California State University, Sacramento

Yohanan, Art (1985)
Electronics Technology
A.A., San Jose City College
B.A., San Jose State University

Young, Donald E. (1989)
Music
B.A., University of Michigan
M.A., Manhattan School of Music, New York

Zamora, Frank (1991)
Art
B.S., M.A., Bob Jones University
M.F.A., Claremont Graduate School

Zannakis, Amanda (1997)
Computer Information Science
B.S., M.S., California State University, Sacramento

Zenner, Bruce D. (1998)
Chemistry
B.A., University of California, Santa Cruz
Ph.D., University of California, Davis

Zuercher, Connie A. (1989)
Physical Education
B.A., University of California, Davis

Sacramento City College

Faculty

Listing by Division

Division of Behavioral and Social Science

Bahhur, Riad
Block, Angela
Bruce, Thomas
Curiale, Angela
Davis, Craig
Davis-Lyman, Barbara
Doonan, William
Flaherty, Pamela
Foley, Jo-Ann
Frank, Paul
Garr, Nancy
Graybill, Stuart
Gunderson, Lisa
Heningburg, Keith
Hilligoss, Tonya
Hunter, Michael
Jones, Ellis
Keys, Alan
Lindell, Pamela
Lopez, Gloria
Malaret, Jesus
Maschmeyer, Marie
McKee, Georgeann
Palm, Donald
Patton, Sherri
Perry, Laurie
Pitman, Gayle
Sarasohn, Eileen
Sjovold, Carl-Petter
Takanikos, John
Takeguchi, Elsie
Tedla, Dagne
Thorpe, W. Steve
Tibbals, Kathleen
Tromborg, Chris
Waite, Ava
Whipple, Charles

Division of Business

Anderson, Kevin
Burbage, Gregory
Camarena, Kathleen
Deus, Richard
Dixon, Michael
Douglass, Bruce
Feder, Sandra
Hogarty, Patrick
Ing, Celina
King, Elizabeth
Low, Stephanie
Pease, Dyan
Quackenbush, Mary
Reynolds, Linda
Rishard, Truman
Rose, Gregory
Schaefer, David
Smedley, Lauri
Smith, Dennis
Stroh, Linda
Taylor, Timothy
Wei, Timothy
Zannakis, Amanda

Division of Counseling

Allred, Mary-Susan
Bacod, Maristella
Barfield, Annette
Cornelius, Victoria
Erlich, Richard
Fabionar, Maria
Fong, Susan
Gomez, Lupe
Hargerty, David
Hart, Beora
Hinerman, James
Janssen-Kays, Kristine
Jovanovic, Angelia
LaChica, Juan
Moralez, Cecelia
Muraki, Keith
Phillips, Maxine
Reese, Rick
Ruedas, Sandra
Scott, Geraldine
Sheppard, Marian
Stone, Leila
Woo, Jane
Yang, Richard

Division of Humanities and Fine Arts

Alforque, Angela-Dee
Altmann, John
Bielick, Joanne
Blanc, Miriam
Bodley, Derrill
Carroll, Robert
Clark, Kevin
Dalkey, Fredric
Daubert, Christopher
Esquibel, George
Fabionar, David
Forrester, Elizabeth
Ginsburg, Liz
Gore, Robert
Hanson, Luther
Harris-Jenkinson, Patricia
Hawthorne, Julie
Irwin, Doreen
Kidrick, Valerie
Knable, Robert
Lawson, Douglas
Masterson, Patricia
Ovesen, Dawn
Reding, Christine
Redmond, Patti
Severson, Michael
Shaskan, Isabel
Triana, Luz
Warner, Maria
Womack, Jesse
Young, Donald
Zamora, Frank

Division of Language and Literature

Cervin, Richard
Chambers, Carole
Christensen, Steven
Dana, Maureen
Doersch, Ann
Ford, Rebecca
Garcia, Albert
Gary, Lara
Haag, Janis
Hanson, Jon
Heimer, Dianne
Ikegami, Robin
Joy, Anna
Kawamura, Sandra
Keen, Judith
King, Adrienne
Klein, Linda
Knorr, Jeffrey
Larson, Marie
Lee, Jan
Lewis, Ann
Loomis, Debora
McReynolds, Virginia
Miner, Thomas
Myers, Troy
Patton, Marcus
Prado, JoAnna
Romero, Danny
Schiller-Chainey, Susan
Selva, Marcia
Silcox, S. Travis
Steward, Mary
Thomas, D. Brett
Thomas-Val, Jacinth

Division of Learning Resources
Chen, Shu
Chenu-Campbell, Catherine
Gessford, Virginia
Green, Melissa
Maller, Yvonne
McDonald, Stephanie
Posz, Pamela
Robinson, Mary
Rodden, Jennifer
Roundtree, Lorilie
Warmington, Sandra
Woolley, Nicole
Wiecking, Kirk

Division of Mathematics/Statistics & Engineering
Bryant, Deborah
Deglow, Annette
Gonzales, Stephen
Handel, Janet
Harbison, Mark
Hatton, Ronald
Johnson, Mai-Gemu
Kent, Donald
Kloumova, Irina
Larson, Carillon
Licciardi, Anne
Maloney, Lori
Martinez, Jesus
Martensen, Carol
May, Alexander
May, Virginia
McDonald, Patrick
Medina, Renee
Mendez-Nunez, Luis
Phillips, Joseph
Rosenberger, Randy
Sanchez, Michael
Stoner, William
Styer, Daniel
Van Sickle, Debra
Vrechek, Jean
Walker, Norman
Wang, Hsiao

Division of Physical Education, Health, & Athletics
Bauduin, Lisa
Blair, Deborah
Brown, Shirley
Carmazzi, Paul
Carmichael, David
Garabato, Gary
Griffin, David
Jones, Andrew
Kiernan, Timothy
Kunimura, Karen
Maglione, Robert
McKay, Ryan
Nash, Laurie
Oh, Jang-Ha
Pacheco, David
Pollock, Koren
Sullivan, Jerry
Zuercher, Connie

Division of Science and Allied Health
Allen, Kathleen
Bennett, Diane
Brosin, Jonathan
Caldwell, Zoe
Carlson, Joanne
Carriere, Sue
Cavanaugh, Judith
Chape, Elizabeth
Chinn, Cheryl
Cohen, Dale
Copely, Douglas
Dunne, Michael
Gillespie, Brian
Greenfield, Joan
Greenwell, Andrea
Holt, Julie
Huang, Ling
Hussey, Susan
Iley II, William
James, Stephen
Johnson, Judy
Lannom, Debra
Lo, Sandra
Lucien, Darreis
Maloyed, Lynda
McDaid, William
Meyer, Virginia
Miller, William
Minter, Carol
Naganuma, Kenneth
Newman, Forrest
Nuss, Linda
Richardson, Michael
Rodenberg, Jennifer
Roffey, Robin
Roper, Susan
Sarte, Jaime
Serafini, Lisa
Sheppard, Laurie
Siu, Jennifer
Standley, Ellen
Steed, S. Paul
Triphon, Joann
Valerio, Armando
Vellucci-Jones, Renee
Wagner, Glennda
Warrell, Patricia
Welch, Diane
Wicks, Debra
Wyatt, David
Zenner, Bruce

Division of Technology
Armstrong, Joseph
Arnold, Darlene
Bonawitz, Marcia
Brooks, Bradley
Cosper, Michael
Crowe, Billy
Cypret, Phillip
Daniels, Gerald
DeLucia, Andrew
Duvall, Melvin
Finley, Phillip
Fitzpatrick, Kenneth
Fleming, George
Johnson, Lawrence
Kalber, Thomas
Kumar, Shishir
Ng, Wang
Seddon, Christopher
Sodergren, Kit
Stinson, Douglas
Tambert, Roxanne
Uber, James
Waxman, Robyn
Winther, Carl
Yohanan, Art

College Terms

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TRANSCRIPT (of record): copy of student's college records prepared by the Admissions and Records office.

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

Index

A

A.A. and A.S. Degree 31
Absences 28
Academic Calendar iv
Academic Renewal Policy 27
Academic Standards 26
Acceptance of Students 19
Access to Student Records 29
Accounting 50
Accreditation 2
Administration v
Administration of Justice 53
  Correctional Services
  Police Services
  Private Security Services
  Management
Admission 19
  After Dismissal 28
  Application 19
  Eligibility 19
  Transfer Students 20, 36
Advanced Education 20
Advanced Transportation Technology 59
  Aeronautics
  Aircraft Structure Manufacturer and Repair
  Airframe
  Powerplant
  Combined Airframe and Powerplant
  Electric Vehicle Technology
  Flight Technology
  Nondestructive Testing Technician
  Railroad Operations
  Recreational Vehicle Technology
Air Conditioning (See Mechanical-Electrical Technology)
Airframe and Powerplant (See Advanced Transportation Technology)
Allied Health 71
Anatomy (See Biology)
Anthropology 73
Application for Graduation 35
Art 76
Assessment Center/Program 8
Associate in Arts Degree 31
Associate in Science Degree 31
Astronomy 82
Athletics 28
Attendance 28
Audiovisual/Learning Center (See Media Services)
Auditors 23

B

Bicycle Lockers 13
Biology 83
Board of Trustees i
Buildings and Facilities 3
Business 88
  Accounting (See Accounting)
  Bookkeeping and Office Management
  Business, General
  Business, Transfer
  Management
  Management, Small Business Management
  Marketing
  Marketing, Advertising
  Office Administration
  Real Estate
Business and Professional Development 3

C

Cafeteria-Snack Bar 12
Calendar (See Academic Calendar) iv
California Articulation Numbering
System (CAN) 44
California State University System 37
California, University of 36
CalWORKs Program 15
Campus Parking/Traffic Regulations 12
Campus Police Services 12
Campus Security Act of 1990 25
Cantonese (See Foreign Languages)
Catalog Rights 23
Center for Physical Excellence 8
Certificates 47
Career Certificate
Certificate of Completion
Change of Address or Name 29
Chemistry 103
Child Development Center 10
Chinese (See Foreign Languages)
Class Schedule 22
Classified Staff 371
Classified Code of Ethics 6
College Administration v
College Level Examination Program 22
College Store 12
College Visitors 25
Committees, College Standing 18
Communication (Speech Communication) 107
Communications Media 114
Community Outreach Education 3
Community Leadership Development 112
Community Studies (Emphasis on Direct Services) 113
Computer Information Science 115
Computer Information Science
Management Information Systems
Microcomputer Technician
Data Base
Information Word Processing
PC Support
Programming
Network Administration
Network Design
Advanced CISCO Networking
Software Application
Web Publishing
Web Programming
Concurrent Enrollment 20
Contract Education/Contract Training 3
Cosmetology 138
Art and Science of Nail Technology
Counseling 7, 20
Course by Television 2
Credit by Examination 23, 35
Credit for Military Services 22
Credit-No Credit Policy 23
Credit, Transfer 36
Cultural Awareness Center 9

D

Dental Assisting 142
Dental Health Clinics 9
Dental Hygiene 145
Dentistry - See Pre-Professional Programs
Disability Resource Center 8
Dismissal 28
Distinguished Service Award 35
Drafting Technology (See
Engineering Design Technology)
Drug and Alcohol Free Campus 25

E

Early Childhood Education 149
Associate Teacher
Early Childhood Education
Family Child Care
Infant Care
Master Teacher
School Age Child Care
Site Supervisor
Teacher
School-Age Assistant Teacher
School-Age Associate Teacher
School-Age Teacher
School-age Master Teacher
School-Age Site Supervisor
Economics 159
Electric Vehicle Technology
(see Advanced Transportation Technology)
Electronics Technology 161
Automated Systems Technician
Electronics Mechanic
Electronics Facilities Maintenance Technician
Microcomputer Technician
Telecommunications Technician
Employment, Student 9
Engineering 167
Engineering Design Technology 170
Architectural/Structural Drafting
Electric (Power/Lighting Systems)
Mechanical (HVAC/Plumbing Systems)
HVAC Systems Design
Surveying (Geomatics)
English 176
English as a Second Language 186
Enrollment Procedures 19
Equal Opportunity in Education Policy 4
Ethnic Studies 194
Ethnic Multicultural Studies 34, 194
Expenses 24
Experimental Offering in (Subject) 195
Extended Opportunity Programs (EOP&S) 15

F

Facilities of the College 3
Faculty Code of Ethics 5
Faculty of the College - Alpha Listing 375
Faculty of the College - Listing by Division 384
Faculty Statement of Professional Ethics 5
Family and Consumer Science 196
- Custom Apparel Construction and Alterations
- Fashion Design and Production
- Interior Design Sewing
- Fashion Sales
- Production Sewing

Fees 20, 24
Field Ecology (See Biology)
Financial Assistance 14
Fine Arts 205
Foreign Languages 206
- Cantonese (Chinese)
- Farsi
- French
- German
- Japanese
- Mandarin (Chinese)
- Russian
- Spanish
- Tagalog
- Vietnamese

Foreign Students (See International Students)
Foundation/Organization of the College 3
Foundation/SCCF 3

G

General Education Requirements
- Sacramento City College 31
- California State University System 37
- University of California 40

General Education, Transfer 213
General Studies, Non-Transfer 214
Geography 215
Geology 218
German (See Foreign Languages)
Gerontology 220
Good Standing 26
Grade Reports 26
Grades and Grade Point Averages 26
Grades of Incomplete 27
Graduation 35
Graduation with Honors 35
Grants, Financial Assistance 14
Graphic Communication 223
- Digital Illustration
- Graphic Design Production
- Image Editing
- Web Design
- Page Layout
- Pre-Press

Grievance Procedures, Student 30

H

HVAC Systems Design (See Mechanical-Electrical Technology)
Health Education 230
Health Services 9
History 232
Home Economics (See Family and Consumer Science)
Honors at Graduation 27
Honors Program 237
Housing Information 17
Human Career Development 238
Human Services 241
Humanities 243

I

Independent Study in (Subject) 195
Industrial Technology 245
Instructional Assisting 246
- Bilingual/Bicultural Emphasis
- General
- Special Education

International Student Center 9
International Studies Program 248
Intersegmental General Education Transfer Curriculum (IGETC) 41

J

Japanese (See Foreign Languages)
Job Placement 9
Journalism 249
- Publications Specialist

L

Law Enforcement (See Administration of Justice)
Law (See Pre-Professional Programs)
Learning Disabilities 8
Learning Center 12
Learning Communities 11
Legal Residence 21
Liberal Studies for Elementary Teachers 252
Liberal Studies 254
Library 255
Library Services 10
Library and Information Technology 257
Los Rios Community College District
- Administration iv
- Board of Trustees i

M

Maintenance Allowance 15
Majors for Graduation 46
Management (See Business)
Management Code of Ethics 6
Management Information Systems
(See Computer Information Science)
Mandarin (See Foreign Languages)
Map, Campus 394
Marketing (See Business)
Mathematics 259
Matriculation 21
Mechanical-Electrical Technology 265
Machinery Systems Technician
Vending and Automatic Merchandising
Wastewater Treatment Plant Operation
Media Services 11
Medicine (See Pre-Professional Programs)
Metals Industry Technology 272
Microbiology (See Biology)
Microcomputer Technician
(See Computer Information Science or Electronics Technology)
Mileage Allowance 15
Military Service Credit 22
Mission 2
Motorcycle Maintenance 275
Music 278
Commercial Music
Songwriting and Arranging
Audio Production
Music Business Management

N

Non-Descrimination Policy 4
Nondestructive Testing Technician (See Advanced Transportation Technology)
Non-resident Tuition Fee Refund 22
Nursing-Baccalaureate 290
Nursing-
Diploma R.N. Pursuing A. S. Degree 290
Nursing, A.S., (R.N.) 290
Nursing, Vocational 295

O

Occupational Therapy Assistant 298
Office Administration (See Business)
Online Courses 3
Open Courses 19
Optometry (See Pre-Professional Programs)
Orientation 7
Organization of Instructional Areas vi
Outreach Programs 7

P

Parking 12
Pharmacy (See Pre-Professional Programs)
Philosophy 303
Philosophy of College 2
Photography 306
Commercial Photography
Digital Photography
Fine Art Photography
Photo-Journalism
Portrait and Wedding
Physical Education 311
Physical Education Requirements 34
Physically Limited - Services and Programs 8
Physical Therapist Assistant 327
Physics 331
Physiology (See Biology)
Placement Service 9
Police Science (See Administration of Justice)
Police Services, Campus 12
Political Science 333
Pre-Professional Majors 335
Prerequisites 29
President's Message 1
Probation 27
Program Changes 22
Programs 46
Progress Points 26
Psychology 337
Publications, Student 249

R

Railroad Operations (See Advanced Transportation Technology)
Readmission 20
Real Estate (See Business)
Real Estate Internship (See Business)
Recreation 345
Recreational Vehicle Service Technology
(See Advanced Transportation Technology)
Re-Entry Services 9
Refrigeration (See Mechanical-Electrical Technology)
Regulations, Revision 21
Remedial Unit Limitation 23
Repetition of Courses 22
Required Admission Procedures 19
Requirements, Graduation 31
Requirements of Transfer Institutions 36
Residency, Guidelines 21
Russian (See Foreign Languages)

S

Satisfactory Progress 28
Scholarships 16
Scholastic Honors 27
Science 346
Sign Language Studies 347
Small Business Management (See Business)
Social Sciences 349
Social Welfare (See Pre-Professional Programs)
Sociology 351
Spanish (See Foreign Languages)
Speech Communication (See Communication)
Statistics 356
Student
- Attendance 28
- Conduct 30
- Development 17
- Employment Services 9
- Expenses 15
- Financial Assistance 14
- Government 17, 359
- Grievance Procedures 30
- Health Services 9
- Housing 17
- Leadership/Activities 17
- Loans 14
- Organizations 18
- Publications 249
- Records 29
- Right to Know Disclosure 25
- Rights and Responsibilities 29
- Support Services 7

Study Abroad Program 358
Surveying (Geomatics) (See Engineering Design Technology)

T

Tagalog (See Foreign Languages)
Teacher Education (See Pre-Professional Programs)
Technology 359
Textbooks and Supplies 24
Theatre Arts 361
Topics in (Subject) 195
Tours 7
Traffic Regulations 12
Transcripts 24
Transfer Center 8
Transfer Credit 36
Transfer from Other Colleges 36
Transportation and Parking 12
Travel Allowance 15
Travel/Study 358
Trustees, Board of i
Tuition and Fees 20, 24
Tuition, Non-Resident 22
Tuition, Refund 22
Tutorial Services 11

U

Units 23, 26
University of California 36

V

Vending and Automatic Merchandising (See Mechanical-Electrical Engineering)
Veteran's Affairs 10
Veterinary Medicine (See Pre-Professional Programs)
Vietnamese (See Foreign Languages)
Visitors to the College 25
Vocational Nursing 295

W

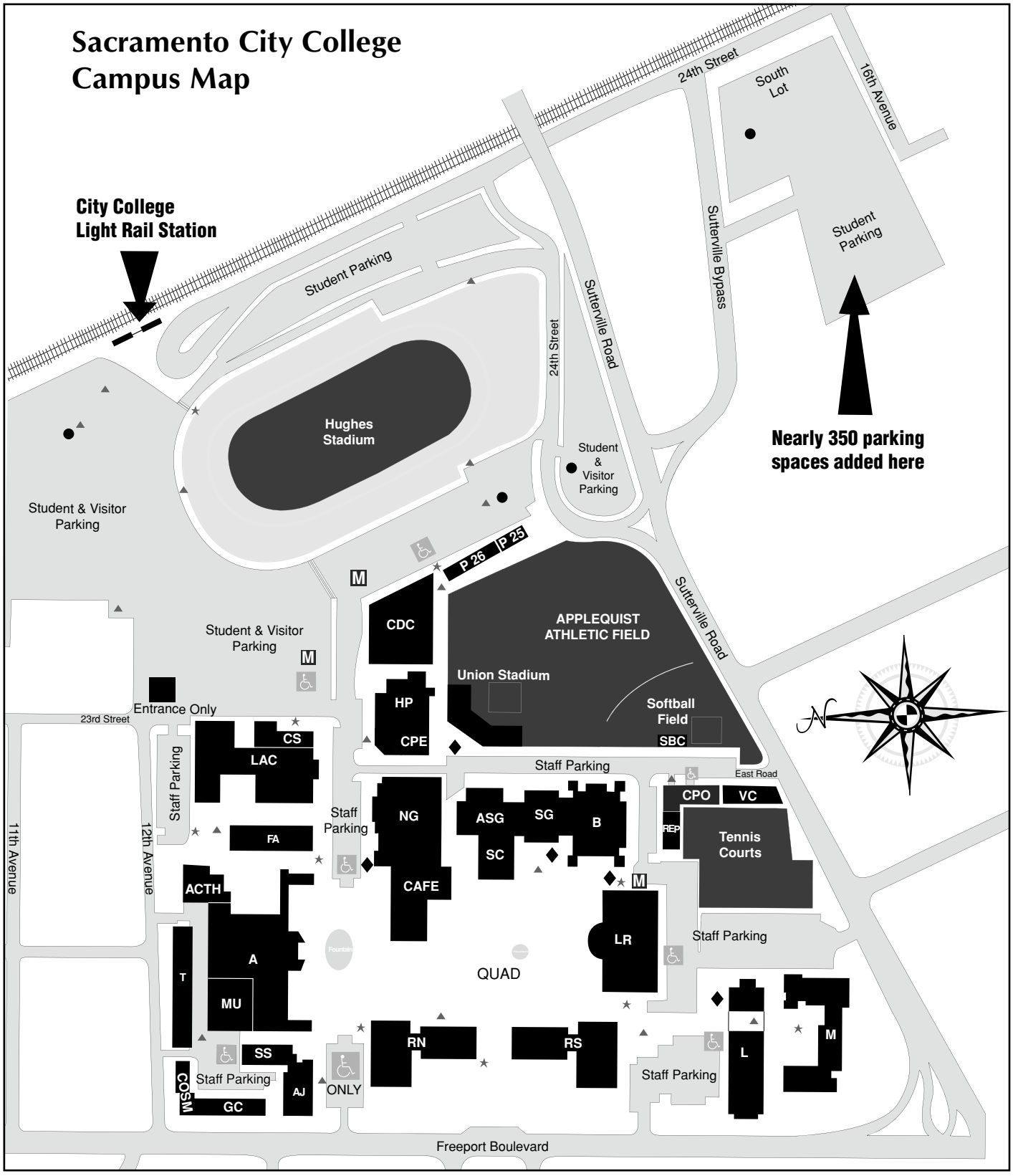
WorkAbility III 8
Water Quality Control (See Mechanical-Electrical Engineering)
Welding (See Metals Industry Technology)
Withdrawals from Class, College 28
Women's Studies 367
Work Experience 366

Z

Zoology (See Biology)

Notes

Sacramento City College Campus Map



A	Auditorium	**GC**	Graphic Communication	**RS**	Rodda Hall - South
ACTH	Art Court Theatre	**HP**	Hoos Swimming Pool	**SC**	Student Center
AJ	Administration of Justice	**HSOC**	Hughes Stadium Office Complex	**SG**	South Gymnasium
ASG	Associated Student Government	**L**	Lillard Hall	**SS**	Student Services
B	Business	**LAC**	Lusk Aeronautical Center	**T**	Technology
CAFE	City Cafe	**LR**	Learning Resource Center	●	Parking Permit Machines
CDC	Child Development Center	**M**	Mohr Hall	♦	Bike Lockers
COSM	Cosmetology	**MU**	Music	★	Campus Directories
CPE	Center for Physical Excellence	**NG**	North Gymnasium	▲	Emergency Phones
CPO	Campus Police Office	**P 26**	Express	♿	Parking for Persons with Disabilities
CS	College Store	**REP**	Reprographics	M	Motorcycle Parking
FA	Fischbacher Arts Building	**RN**	Rodda Hall - North		